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UNIE VAN SUID-AFRIKA

DEPARTEMENT VAN MYNWESE

WATERBERG-STEENKOOLVELD

BOORGATSTATE VAN GATE 21 tot 40

GEBOOR VIR

DIE DEPARTEMENT VAN MYNWESE

et aantekeninge deur J. F. Cillié, B.A., B.Sc., en H. N. Visser, B.Sc.

Publikasie van die afdeling Geologiese Opname

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Bulletin No. 16

UNION OF SOUTH AFRICA

DEPARTMENT OF MINES

WATERBERG COALFIELD

RECORDS OF BOREHOLES 21 to 40

SUNK FOR

THE DEPARTMENT OF MINES

ith notes by J. F. Cillié, B.A., B.Sc., and H. N. Visser, B.Sc.

Publication of the Geological Survey Division

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DIE WATERBERGSE STEENKOOLVELD

A. INLEIDING.

Die Waterbergse steenkoolveld is in die noordelike gedeelte van e Waterbergdistrik geleë. In teëstelling met die bergagtige aard n die landstreek na die suide, wat die sandsteen, kwartsiet en nglomerate van die Waterberg-sisteem beslaan, is die laeveld ’n sbedekte vlakte bykans sonder uitstaande kenmerke en omtrent 00 voet bo die seespieël geleë. Die enigste opvallende landtekens s van die Mogolrivier is Koornkop op Nelsonskop 1362, die Bul, e Koei en die Kalf. Hulle is erosierelikte van Holkrans-sandsteen t van 50 tot 150 voet bo die omliggende vlakte uitsteek. Oos van e Mogolrivier word die opvallenste landtekens gevorm deur die felrante op New York 1201 en verder na die suidweste. Hulle staan uit die onderste deel van die Middel-Ecca. Verder na die orde word Beshakop ook nog aangetref, wat hoofsaaklik uit lkrans-sandsteen bestaan. Die Mogolrivier vloei in ’n noordelike ting deur die sentrale gedeelte van die koolveld. Dit is ’n sytak n die Krokodilrivier.

Steenkool is eers ontdek terwyl na water geboor is op die plaas ootgeluk 1360 in 1920. Enkele verdere boorgate is in hierdie ngewing geboor en die steenkoolkerns is ontleed. Die resultate n die boordery word deur Trevor en du Toit in die *South African urnal of Industries, April*, 1922*, aangegee. Tussen 1920 en 1940 daar nie verder na steenkool geboor nie.

Gedurende die tydperk 1941 tot 1944 is ’n geologiese opname n die gebied gemaak om die omvang van die steenkoolveld vas te el. Aangesien daar geen natuurlike blootleggings van die steenkool-e is nie, moes gate geboor word ten einde die aantal steenkoollae nwesig en die aard van die steenkool vas te stel. So is daar, in mewerking met die Geologiese Opname, deur die Besproeiingspartement met twee boormasjiene gate geboor op plekke spesiaal ur die skrywers hiervan aangewys. Albei die boormasjiene is van e rotasietipe. Die boorprogram het ’n aanvang geneem met twee asjiene, die een waarvan ’n kern van $\frac{7}{8}$ duim deursnee en die ander kern van $3\frac{1}{2}$ duim deursnee, oplewer. Eersgenoemde masjiene is Julie 1944 vervang deur ’n tweede masjien wat ook ’n kern van duim deursnee oplewer. Die geoloë ondersoek die kerns noukeurig teken hul waarnemings sorgvuldig aan in die veld.

Slegs die kerns deur die grootste boormasjiene verkry, is aan die andstofnavorsingsinstituut in Pretoria gestuur om ontleed en toets te word ten einde die verskillende eienskappe van die steenkool s te stel. Die boorgatstate en analises in hierdie verslag getabelleer, die resultate van boorgate 21 tot 40; en, soos met die vorige lletin die geval was, word met hierdie bulletin hoofsaaklik beoog die resultate bekend te maak. Aangesien die geologiese opname n hierdie gebied voltooi is, gaan hierdie bulletin vergesel van ’n ologiese kaart.

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* Sien ook *Geological Survey Memoir No.* 19, *Vol. III.*

THE WATERBERG COALFIELD

A. INTRODUCTION.

The Waterberg coalfield is situated in the northern part of tl
Waterberg District. In contrast to the mountainous nature of tl
country to the south, occupied by the sandstones, quartzites ar
conglomerates of the Waterberg system, the low country is a mo
or less featureless, bush covered plain that lies about 3,000 feet abov
sea-level. The only prominent landmarks to the west of the Mog
are Koornkop on Nelsonskop 1362, the Bull, the Cow, and the Ca
These are erosional relicts of Cave sandstone that rise from 50
150 feet above the level of the surrounding plain. To the east of tl
Mogol river the most marked landmarks are formed by the flat-toppe
hills on New York 1201 and farther to the south west. They consi
of the lower division of the Middle Ecca. Farther northwards the
is also Besha kop, consisting of Cave sandstone in the main. Tl
Mogol river flows through the central part of the coalfield in a norther
direction and is a tributary of the Crocodile river.

Coal was first discovered in boring for water on the farm Groo
geluk 1360 in 1920. A few more boreholes in this vicinity were p
down and the coal cores were analysed. The results of this drillin
are recorded by Trevor and Du Toit in the *South African Journal*
Industries, April, 1922.* Between 1920 and 1940 no further drillin
for coal was undertaken.

During the period 1941 to 1944 a geological survey of the ar
was undertaken in order to determine the size of the coalfield.
there are no natural exposures of coal seams, drilling had to
resorted to in order to determine the number of coal seams prese
and the nature of the coal. So, concurrently with the Geologic
Survey, drilling was done by the Irrigation Department, with tv
machines on sites specially selected by the authors. Both machin
are of the rotary type, the one producing a core of $\frac{7}{8}$ of an inch ar
the other of $3\frac{1}{2}$ inches in diameter. The former machine was replace
in July 1944 by one also producing a $3\frac{1}{2}$-inch core. The cores a
carefully examined and recorded by the geologists in the field. T
cores of the large machines only are forwarded to the Fuel Resear
Institute at Pretoria for the analysis and testing of the differe
properties of the coal. The borehole records and analyses tabulat
in this report are the results obtained from boreholes 21 to 40, ar
as in the case of the previous bulletin, the primary object of tl
bulletin is to make the results known. As the geological survey
the area has been completed, this bulletin is accompanied by
geological map.

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* See also Geological Survey Memoir No. 19, Vol. III.

B. ALGEMENE GEOLOGIE.

In hierdie gelyk wêreld is die afwatering-sisteem baie swak ontwikkel, en die grootste gedeelte van die veld is met sand bedek. In ander gedeeltes het oppervlakte-kalksteen, resente konglomeraat en grintsteen ook 'n aandeel in die oordekking van die benedeliggende Karoo- en ouer formasies. Dagsome is dus baie skaars met die gevolg dat juiste geologiese grense nie vasgestel kan word nie.

Oor die algemeen kom die Karoo-sedimente voor in die vorm van 'n wye vlak sinklinaal waarvan die as van oos na wes strek. Verskeie verskuiwings, wat van oos na wes strek, is vasgestel. Sommige van hulle het 'n val na die suide en ander weer 'n val na die noorde.

In die suidelike gedeelte van die steenkoolveld is die Karoo-sedimente neergelê op 'n vloer van gesteentes wat tot die Waterberg-sisteem behoort. In die ooste bestaan die vloer uit Bosveld-graniet en basiese gesteentes wat tot die Bosveld-stollingskompleks of die Swaziland-sisteem behoort. Aan die noordekant vorm Ouer-graniet en gesteentes van die Swaziland-sisteem die vloer. Die volgende opeenvolging van Karoogesteentes is vasgestel en geklassifiseer, deels uit waarnemings in die veld maar hoofsaaklik volgens die resultate van die veertig voltooide boorgate.

Dikte.	*Serie.*	*Verteenwoordigende gesteente.*
(1) — 300 vt.	*Holkrans-sandsteen*	Fynkorrelrige wit en rooierige sandsteen.
(2) — 350 vt.	*Rooi-lae*......	Baie fynkorrelrige rooi kleiige sandsteen, moddersteen en mergel.
(3) 20 tot 70 vt.	*Molteno-lae*...	Grofkorrelrige wit en pers of bruin sandsteen wat verspreide spoel-klippers bevat.
(4) 40 tot 310 vt.	*Beaufort-lae*...	Rooi- en vaalkleurige moddersteen.
(5) 60 tot 280 vt.	*Bo-Ecca*......	'n Opeenvolging tussengelaagde koolstofhoudende skalielae en steenkoollae. Die steenkool is gewoonlik glansend.
(6) 20 tot 270 vt.	*Middel-Ecca*...	Veldspatiese sandsteen en grintsteen, met tussengelaagde koolstofhoudende skalie en sanderige skalie. Dit bevat 'n paar steenkoollae in die boonste gedeelte en enkele in die onderste gedeelte, en geen steenkoollae waar dit swak ontwikkel is.
(7) 0 tot 540 vt.	*Onder-Ecca*....	Skalie en sanderige skalie met sandsteen en grintsteen in die onderste gedeelte.
(8)	*Dwyka*.......	Tilliet (Dikte onseker).

B. GENERAL GEOLOGY.

In this flat country the drainage system is very poorly develope and the major portion of the field is covered with sand. In othe portions surface limestone, recent conglomerates and grits also pla a part in covering the underlying Karroo and older formations. Out crops are, therefore, very scanty, so that accurate geological boundarie cannot be drawn.

The Karroo sediments on the whole occur in the form of a wid shallow syncline, with axis trending east to west. A few east-wes faults have been located. Some of them have a down-throw toward the south, and others towards the north.

In the southern part of the coalfield the Karroo sediments wer deposited on a floor of rocks belonging to the Waterberg syste In the east the floor consists of Bushveld granite and basic rock belonging to the Bushveld igneous complex or the Swaziland syste To the north the floor is formed by the Older granite and rocks of th Swaziland system. From observations in the field but mainly fro the results of the forty completed boreholes, the following successio of Karroo rocks in this coalfield has been established and classified :–

Thickness.	*Series.*	*Representative Rocks.*
(1) — 300 ft.	*Cave Sandstone*	Fine-grained white and reddis sandstone.
(2) — 300 ft.	*Red Beds*.....	Very fine-grained red claye sandstones, mudstones an marl.
(3) 20 to 70 ft.	*Molteno Beds*.	Coarse-grained white an purple or brown sandston containing scattered pebble
(4) 40 to 310 ft.	*Beaufort Beds*.	Red and drab coloured mu stones.
(5) 60 to 280 ft.	*Upper Ecca*... —	A succession of intercalate carbonaceous shale ban and coal seams. The co is generally bright.
(6) 20 to 270 ft.	*Middle Ecca*..	Feldspathic sandstone and gri with intercalated carbona ceous shale and sandy shal The latter carries a few co seams in the upper portio and a few in the lower po tion, with no coal sea where it is weakly develope
(7) 0 to 540 ft.	*Lower Ecca*...	Shales and sandy shales wit sandstone and grit in th lower portion.
(8)	*Dwyka*.......	Tillite (Thickness uncertain).

Tot dusver is slegs ses gate tot in die voor-Karoo-gesteentes geboor, maar in geeneen is Dwyka-tilliet aangetref nie. Op die suidwestelike rand van die steenkoolveld kom dit wel voor.

Tot dusver is geen gidsfossiele gekry nie en die indeling is bloot op litologiese gegewens gegrond. Dit is dus moontlik dat hierdie groepering in die toekoms gewysig kan word.

Hierop volg nou die state van boorgate 21 tot 40, wat in hierdie steenkoolveld geboor is en hulle posisies word op die meegaande geologiese kaart aangetoon.

Die Suid-Afrikaanse Brandstofnavorsingsinstituut het die chemiese eienskappe van die verskillende steenkoollae bepaal.

C. ONTLEDINGSMETODES EN HUL BETEKENIS.*

(a) *Monstering*

Monstering word volgens Suid-Afrikaanse Standaardspesifikasie, No. 13 van 1937, „ Standard Methods for the Sampling of Coal in South Africa ”, uitgevoer. (**N.G.** : Nie gemonster nie.)

(b) *Kortanalieses.*

(i) *Voggehalte.*—Dit word vasgestel as die verlies aan gewig by die verhitting van 1 gram steenkool by 101–105° C. vir een uur.

(ii) *Asgehalte.*—Is die oorblywende as wat by verbranding van 1 gram steenkool verkry word. Die steenkool word langsaam verhit tot 800° C. en word een uur lank by hierdie temperatuur gehou.

(iii) *Gehalte aan Vlugtige Bestandele.*—Die verlies aan gewig van 1 gram steenkool wat 7 minute lank by 920° verhit is, min die gewig van water wat in die steenkool aanwesig is.

(iv) *Gehalte aan Kooks-koolstof.*—Dit word verkry deur die som van die gehalte aan vog, as en vlugtige bestandele van 100 af te trek.

(c) *Verhittingswaarde (Vw.)*

Hierdie waarde wat in verdampingseenhede (℔./℔.) opgegee word, word bereken uit die temperatuurstyging wat behaal word deur die verbranding van 1 gram steenkool onder ’n suurstofdruk van 30 atmosfere in ’n Berthelot-Mahler-Kroeker-bomkalorimeter.

Die bepaling word uitgevoer volgens Suid-Afrikaanse Standaardspesifikasie, S.A. No. 5 van 1940, „ The Determination of the Comparative Calorific Values of Coals in South Africa (1 ℔./℔. eenheid = 970 B. Th. U’s/℔.).“

(d) *Voorlopige Dryfsel- en Sinksel- analises*

Monsters van 20 gram elk van die steenkool word in verskeie soortelike gewigsfraksies verdeel met behulp van petrol- en koolstoftetrachloriedmengsels en ’n sentrifuge. Die apparaat en die metode wat aangewend word, word deur P. E. Hall in die *Journal of the Chemical, Metallurgical and Mining Society of South Africa, Vol.* 34, *No.* 8, onder „ A Specific Gravity Investigation of Coal Samples ” beskryf.

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* Bygedra deur die Suid-Afrikaanse Brandstofnavorsingsinstituut.

Up to the present only six holes have penetrated into the pre-Karroo rocks, but no Dwyka tillite has been found in any one of them. It does occur on the south-western edge of the coalfield.

No index fossils have so far been found, and the subdivision is based purely on lithological grounds. It is, therefore, possible that this classification may in future be revised.

The following are the records of boreholes 21 to 40, drilled in this coalfield, and their positions are shown on the accompanying geological map.

The Fuel Research Institute of South Africa determined the chemical properties of the various coal seams.

C. ANALYTICAL METHODS AND THEIR SIGNIFICANCE.*

(*a*) *Sampling*

Sampling in carried out according to South African Standard Specification, S.A. No. 13 of 1937, "Standard Methods for the Sampling of Coal in South Africa." (**N.S.** : Not sampled.)

(*b*) *Proximate Analyses*

(i) *Moisture Content.*—This is determined as the loss of weight on heating 1 gram of coal at 101–105° C. for one hour.

(ii) *Ash Content.*—The residual ash obtained on combustion of 1 gram of coal. The coal is slowly heated to 800° C. and kept at this temperature for one hour.

(iii) *Volatile Matter Content.*—The loss of weight of 1 gram of coal heated at 920° C. for 7 minutes minus the weight of water present in the coal.

(iv) *Fixed Carbon Content.*—This is obtained by subtracting the sum of moisture, ash and volatile matter contents from 100.

(*c*) *Calorific Value* (*Cal. Val.*)

This value expressed in Evaporative Units (lb./lb.), is calculated from the rise in temperature obtained from the combustion of 1 gram of coal under 30 atmospheres pressure of oxygen in a Berthelot-Mahler-Kroeker bomb calorimeter.

The determination is carried out according to South African Standard specification, S.A. No. 5 of 1940, "The Determination of the Comparative Calorific Values of Coals in South Africa (1 ℔./℔. unit = 970 B. Th. U's/℔.)."

(*d*) *Preliminary Float* (*Fl.*) *and Sink Analysis*

Twenty gram portions of the coal are separated into different specific gravity fractions in a centrifuge using petrol and carbon tetrachloride mixtures of varying specific gravity. The apparatus and method used is described in the *Journal of the Chemical, Metallurgical and Mining Society of South Africa, Vol.* 34, *No.* 8: "A Specific Gravity Investigation of Coal Samples," by P. E. Hall.

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* Contributed by the Fuel Research Institute of South Africa.

(i) *Die persentasie dryfsel by 'n S.G. van* 1·45 is die gewigspersentasie van die steenkool wat 'n S.G. van minder as 1·45 het. Hierdie dryfsel bevat die merendeel van die verkooksende bestanddele, wanneer 'n monster sodanige bestanddele bevat.

(ii) *Die persentasie dryfsel by 'n S.G. van* 1·6 is die gewigspersentasie van die steenkool wat 'n S.G. van minder as 1·6 het. Dit verteenwoordig naasteby die hoeveelheid steenkoolmaterie wat aanwesig is en verstrek tewens 'n optimum syfer vir wat 'n gewone wasmasjien met die steenkool sal behaal. Word hierdie syfer van 100 afgetrek, dan gee dit die hoeveelheid bykomstige materiaal wat in 'n steenkoolmonster aanwesig is. Hierdie skeiding, tesaam met dié by 1·45 verstrek min of meer 'n aanduiding van die verspreiding van die mineraalbestanddele in 'n monster.

(iii) *Die persentasie as op die dryfsel by* 1·45 gee enigermate 'n aanduiding van die minimum asgehalte wat waarskynlik by die was van die steenkool verkry sal word.

(iv) *Die persentasie as op die dryfsel by* 1·6 verteenwoordig die hoeveelheid mineraalbestanddele wat intiem met die steenkoolmaterie geassosieer is en as sodanig verskaf dit 'n syfer vir die minimum asgehalte vir 'n normale gewaste produk uit die besondere monster.

(v) *Die Woodall-Duckham-Swelsyfer* (*Sw-Syf.*) is die verhouding van die eind- tot die beginvolume van 1 gram steenkool, sterk verhit onder standaardtoestande, en is 'n maatstaf van die verkooksingseienskappe van die steenkool. Hierdie toets word volgens die Britse Standaardspesifikasie No. 804 van 1938, ,, The Crucible Swelling Test for Coal ", uitgevoer.

Met 1 word bedoel 'n residu met 'n bepaalde kookstruktuur maar geen swelling nie. Met 1 f word bedoel 'n residu wat maklik verkrummel maar geen kookstruktuur het nie. Met 1 p word bedoel 'n residu in poeiervorm. 'n Waarde van 3 of meer dui aan dat daar bepaald verkooksingsmoontlikhede is.

(iv) Indien die materiaal van die 1·45 dryfsel verkooksingsmoontlikhede toon, word verdere bepalings van die swelsyfer op die ·6 S.G.-fraksie uitgevoer. Hierdie syfers gee 'n aanduiding van die verkooksingsvermoë by hierdie S.G.-skeiding.

(i) *The percentage float at a S.G. of* 1·45 is the percentage b weight of the coal which has a S.G. less than 1·45. This float contains the majority of the coking constituents when these are presen in a sample.

(ii) *The percentage of float at a S.G. of* 1·6 is the precentage b weight of the coal which has a S.G. less than 1·6. It represent approximately the amount of coal substance present and also give an optimum figure for the performance of an ordinary washer on th coal. This figure subtracted from 100 gives the amount of adventitiou matter in a coal sample. This cut at 1·6, together with that at 1·4 gives a rough idea of the distribution of the mineral matter in a sampl

(iii) *The percentage ash on the float at* 1·45 gives some indicatio of the minimum ash content likely to be obtained by washing.

(iv) *The percentage ash on the float at* 1·6 represents the amour of mineral matter intimately associated with the coal substance an as such furnishes a figure for the minimum ash content for a norm washed product from the particular sample.

(v) *The Woodall Duckham Swelling Number* (*Sw. N.*) is the rat of the final to the initial volume of 1 gram of coal heated strong under standard conditions and is a measure of the coking propensiti of the coal.

This test is carried out according to B.S. Specification No. 8 of 1938, “ The Crucible Swelling Test for Coal.”

By 1 is denoted a residue of definite coke structure but no swellin by 1 f a residue easily friable and possessed of no coke structure ar 1 p denotes a residue in powder form. A value of 3 or more indicat definite coking possibilities.

(vi) If the float 1·45 material exhibits coking possibilities, furth swelling number determinations are carried out on the S.G. 1·6 fractio These figures given an indication of the coking propensity with th S.G. cut.

D. THE BOREHOLE RECORDS—D. DIE BOORGATSTATE.

BOORGAT 21 : WILDEBEESTPAN 355 : BOREHOLE 21.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	Dm. In.	Vt. Ft.	Dm. In.	
and....................	15	0	15	0	Sand.
andsteen, verweer........	30	0	45	0	Sandstone, weathered.
andsteen, fynkorrelrig, rooibruin met pers dele, baie wit en groenwit kalkhoudende dele en knolle	110	7	156	9	Sandstone, fine-grained, reddish brown, purple in places, many white and greenish-white calcareous parts and nodules.
andsteen, baie fynkorrelrig kleiïg, rooibruin met enkele wit en ligrooi lagies, heelwat groenwit kalkhoudende knolle en dele; bevattende klein onreëlmatige lensies donkerrooi moddersteen	74	8	231	6	Sandstone, very fine-grained argillaceous, reddish brown with some white and pink bands, many greenish white calcareous nodules and parts; containing small irregular lenses of dark red mudstone.
andsteen, baie bynkorrelrig kleiïg donkerrooi, min groenwit kalkhoudende knolle; onreëlmatige gelaagdheid in dele	43	6	275	6	Sandstone, very fine-grained argillaceous dark red; few greenish white calcareous nodules; irregular bedding in parts.
andsteen, baie fynkorrelrig, kleiïg, donkerrooi, baie groen wit kalkhoudende knolle	16	6	292	0	Sandstone, very fine-grained, argillaceous, dark red; many greenish white calcareous nodules.
oddersteen, sanderig, donkerrooi; baie groenwit kalkhoudende knolle	18	6	—		Mudstone, sandy, dark red; many greenish white calcareous nodules.
oddersteen, donkerrooi en bruinpers; met een chertknol in boonste deel; bevat goedgeronde kwartskorrels, wat meer word na onder	2	10	—		Mudstone, dark red and brownish purple; with one chert nodule in upper part; containing well-rounded quarts grains, which increase in number towards the bottom.
ndsteen, bruinpers en dofwit gevlek; met goedgeronde kwartskorrels. Boonste gedeelte kleiïg, middelkorrelrig verder met fynkorrelrige skalieagtige deel na onder	3	2	317	0	Sandstone, mottled brownish purple and greyish white; with well-rounded quartz grains. Upper portion argillaceous, the rest medium-grained with fine-grained shaly part towards the bottom.
ndsteen met grintsteenlensies en lagies dofpers skalie. Wit- en bruinkleurig. Dele goedgelaagd	11	6	—		Sandstone with small lenses of grit and greyish purple shale bands. Coloured white and brown. well-bedded in parts.
intsteen met baie growwe en fynere dele; bevat hoekige stukkies rooi moddersteen. Wit, rooi- en perskleurig	15	7	345	2	Grit with very coarse and finer parts; containing angular pieces of red mudstone. Coloured white, red and purple.
ndsteen met verskeie grintsteenlense en enkele dun agies bruin skalie. Hier en daar is klein stukkies moddersteen. Eersgenoemde is bruin met wit vlekke en kruisgelaagd	17	0	362	0	Sandstone with several grit lenses and some thin bands of brown shale. Containing small pieces of mudstone in parts. The sandstone is brown with white spots and cross-bedded.

Bg. 21 (*Verv.*) B.H. 21 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Sandsteen en grintsteen, wit met rooierige dele, kruisgelaagd ; bevattende enkele stukkies moddersteen sowel as dun lagies bruin skalie	17 4	—	Sandstone and grit, white with reddish parts, cross-bedded containing occasional pieces of mudstone as well as bands of brown shale.
Moddersteen, bruinrooi.....	3 8	383 0	Mudstone, brownish red.
Moddersteen, bruinrooi, met groenwit kalkhoudende dele en onreëlmatige karbonaatlense	81 9	465 9	Mudstone, brownish red, with greenish white calcareou parts and irregular carbonate lenses.
Moddersteen, boonste oorwegend bruinrooi en na onder oorwegend grys met min kalkhoudende dele. Enkele lagies is hard en vol piriet en kalsiet. Krakies in rots met kalsiet opgevul	30 8	497 0	Mudstone, upper portion mainly brownish red and botton portion mainly grey with few calcareous parts. Som bands are hard and full o pyrite and calcite. Crack in rock filled with calcite.
Moddersteen, dofgroen en grys met enkele rooierige dele bo-aan	24 6	521 6	Mudstone, greyish green an grey with some reddish part near the top.
Moddersteen, grys.........	16 4	—	Mudstone, grey.
Moddersteen, grys met groen en swart deeltjies, bevat baie kalsiet en piriet	1 8	—	Mudstone, grey with green an black pieces, contains muc pyrite and calcite.
Moddersteen, grys.........	11	550 6	Mudstone, grey.
Moddersteen, grys, met kalsietlagies hier en daar, en enkele dele wat baie piriet bevat	47 11	598 9	Mudstone, grey, with bands o calcite here and there an some parts containing muc pyrite.
Moddersteen, liggrys, met min piriet, en kalsiet. Die onderste 3 dm. is oorwegend kalsiet	23 3	622 0	Mudstone, light grey, wit little pyrite and calcit The lower 3 in. is mainl calcite.
Moddersteen, liggrys, met min piriet en kalsiet	6 0	—	Mudstone, light grey, with ver little pyrite and calcite.
Skalie, donkerblou en gryswart met koolstofhoudende strepe. Bevat kalsiet en piriet	10 9	—	Shale, dark blue and greyis black, with carbonaceou streaks. Containing littl calcite and pyrite.
Skalie, koolstofhoudend, met **steenkoolstrepïes**	1 10	640 9	Shale, carbonaceous, wit streaks of **coal.**
Steenkool, gestreep, baie glansend	1 8	642 5	**Coal,** banded, very bright.
Skalie, koolstofhoudend, met **steenkoolstrepe**	3 11	646 5	Shale, carbonaceous, wit streaks of **coal.**
Skale, koolstofhoudend, met **steenkoolstrepe**	2 8	—	Shale, carbonaceous, wit streaks of **coal.**
Glanskool................	6	649 7	**Coal,** bright.
Skalie, koolstofhoudend, met **steenkoolstrepe**	3 3	—	Shale, carbonaceous, wit streaks of **coal.**
Glanskool................	3	653 1	**Coal,** bright.
Skalie, koolstofhoudend....	3 3	—	Shale, carbonaceous.
Steenkool, oorwegend glansend	8	657 0	**Coal,** mainly bright.
Skalie, koolstofhoudend....	6	—	Shale, carbonaceous.
Glanskool................	2	—	**Coal,** bright.
Skalie, koolstofhoudend....	4	658 0	Shale, carbonaceous.
Steenkool, oorwegend glansend en gestreep, met enkele dowwe strepe ; piriethoudend	1 0	659 0	**Coal,** predominantly brigh banded, with some du bands ; pyritic.
Skalie, koolstofhoudend....	3 0	662 0	Shale, carbonaceous.

Aard van lae.	Dikte verkry. Thickness Recovered. *Vt.* *Ft.*	*Dm.* *In.*	Ware diepte. True Depth. *Vt.* *Ft.*	*Dm.* *In.*	Nature of Strata.
kalie, koolstofhoudend....		7	—		Shale, carbonaceous.
teenkool, oorwegend glansend		4	662	11	**Coal,** predominantly bright.
kalie, koolstofhoudend....		7	663	6	Shale, carbonaceous.
teenkool, glansend en gestreep, met afwisselende skalielagies, 4″–6″ dik; 50% Skalie	3	2	—		**Coal,** bright banded, with alternating shale bands, 4″–6″ thick. 50% Shale.
teenkool, glansend en gestreep, met afwisselende skalielagies, 4″–12″ dik	3	2	—		**Coal,** bright banded, with alternating bands of shale 4″–12″ thick.
teenkool, glansend en gestreep, met afwisselende skalielagies, 4″–6″ dik	3	2	—		**Coal,** bright banded, with alternating bands of shale, 4″–6″ thick.
kalie, koolstofhoudend met **glanskool, N.G.**	1	0	—		Shale, carbonaceous, with bright **coal, N.S.**
teenkool, glansend en gestreep, met dun skaliestrepies	1	4	—		**Coal,** bright banded, with thin shale streaks.
kalie, koolstofhoudend, met **glanskool**		9	—		Shale, carbonaceous, with bright **coal.**
teenkool, glansend, en koolstofhoudende skalie, met 1″ koolstofhoudende sandsteen, 75% **steenkool**	4	8	—		**Coal,** bright, and carbonaceous shale, with 1″ of carbonaceous sandstone, 75% **coal.**
kalie....................		10	—		Shale.
lanskool en skalie met baie wryfspieëls	2	5	—		**Coal,** bright, and shale with many slickensides.
eenkool en skalielagies, 2″–8″ dik om die beurt, 50% **steenkool**	2	3	—		**Coal** and shale bands, 2″–8″ thick, alternating, 50% **coal.**
eenkool, glansend en gestreep, met dun skaliestrepe	1	5	—		**Coal,** bright banded, with thin shale streaks.
kalie, koolstofhoudend, en **steenkool**	2	0	—		Shale, carbonaceous, and **coal.**
eenkool, glansend en gestreep, met 2″ koolstofhoudende skalie 15″ van bo	4	2	—		**Coal,** bright banded, with 2″ of carbonaceous shale 15″ from the top.
kalie, koolstofhoudend....		3	—		Shale, carbonaceous.
eenkool, glansend en gestreep, piriethoudend		2	—		**Coal,** bright banded, pyritic.
kalie, koolstofhoudend....		6	—		Shale, carbonaceous.
eenkool, oorwegend glansend, met skalielagies tot 1″ dik	3	2	698	11	**Coal,** predominantly bright, with shale bands up to 1″ thick.
kalie met **glanskoolstrepe**.	1	3	700	2	Shale with bright **coal** streaks.
anskool................		6	700	8	**Coal,** bright.
kalie met **glanskoolstrepe**.	1	1	701	9	Shale with bright **coal** streaks.
anskool................		7	702	4	**Coal,** bright.
kalie, koolstofhoudend....	4	6	706	10	Shale, carbonaceous.
eenkool, glansend en gestreep, met skaliestrepe	3	1	—		**Coal,** bright banded, with shale streaks.
kalie, koolstofhoudend....		7	—		Shale, carbonaceous.
eenkool, glansend en gestreep, met enkele dun skaliestrepe	1	7	—		**Coal,** bright banded, with some thin shale streaks.
alie, koolstofhoudend....	1	5	—		Shale, carbonaceous.
eenkool, glansend en gestreep, met 2″ korrelrige **dofkool** in middel	1	11	715	5	**Coal,** bright banded, with 2″ of dull granular **coal** in the middle.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie, koolstofhoudend, met glanskoolstrepe en 1″ sanderige mikahoudende skalie 5″ van onder	5	6	720	11	Shale, carbonaceous, wit streaks of bright **coal** an 1″ sandy macaceous sha 5″ from the bottom.
Steenkool, glansend en gestreep, met 3″ koolstofhoudende skalie 3″ van bo	1	7	—		**Coal,** bright banded, with of carbonaceous shale from the top.
Skalie	1	8	—		Shale.
Steenkool, glansend en gestreep, met 2 × ½″ en 1 × 2″ skalielagies	1	11	—		**Coal,** bright banded, wit 2 × ½″ and 1 × 2″ shale band
Skalie	1	8	—		Shale.
Steenkool, oorwegend glansend en gestreep, met dun skaliestrepies en 4″ skalie 6″ van onder-af	3	8	—		**Coal,** mainly bright bande with thin shale bands an 4″ of shale 6″ from th bottom.
Steenkool en skalielagies om die beurt; 4″–8″ **steenkoollagies; 75% steenkool**	3	4	—		**Coal** and shale bands alte nating 4″–8″ **coal** bands 75% **coal.**
Steenkool en skalielagies om die beurt. 4″–8″ **steenkoollagies; 50 % steenkool**	3	4	—		**Coal** and shale bands alte nating 4″–8″ bands of **coal** 50 % **coal.**
Skalie, koolstofhoudend		6	—		Shale, carbonaceous.
Steenkool, glansend en gestreep		11	—		**Coal,** bright banded.
Skalie, koolstofhoudend, met **glanskoollagies**	1	5	—		Shale, carbonaceous, wit bands of bright **coal.**
Steenkool, glansend en gestreep	1	8	—		**Coal,** bright banded.
Glanskool en skalielagies, 4″–8″ dik om die beurt, 50 % **steenkool**	2	2	—		**Coal**, bright, and shale band 4″–8″ thick; 50 % **coal.**
Glanskool en skalielagies, 4″–8″ dik; beurtelings; 50 % **steenkool**	1	8	—		**Coal,** bright, and shale band 4″–8″ thick; alternatin 50 % **coal.**
Skalie, koolstofhoudend, met 3″ **glanskool** in middel	1	8	—		Shale, carbonaceous, with **bright coal** in the middle.
Skalie, koolstofhoudend, en **glanskool**, 4″–8″ lagies; 25 % **steenkool**	4	0	—		Shale, carbonaceous, ar **bright coal,** 4″–8″ band 25 % **coal.**
Steenkool, glansend en gestreep		10	—		**Coal,** bright banded.
Skalie, koolstofhoudend		8	—		Shale, carbonaceous.
Steenkool, glansend en gestreep, met 2″ koolstofhoudende skalie en enkele dun skalierige sandsteenstrepies; 75% **steenkool**	3	2	756	0	**Coal,** bright banded, with carbonaceous shale and a fe thin shaly sandstone streak 75% **coal.**
Skalie	3	2	759	2	Shale.
Steenkool, glansend en gestreep		7	—		**Coal,** bright banded.
Skalie	1	11	—		Shale.
Glanskool- en skalielagies van 4″–8″ om die beurt; 50 % **steenkool**	3	7	—		**Coal,** bright, and shale i alternating bands of 4″– thick; 50 % **coal.**
Glanskool- en skalielagies van 2″–8″ om die beurt; 50 % **steenkool**	3	4	—		**Coal,** bright, and shale i alternating bands of 2″– thick; 50 % **coal.**
Skalie, koolstofhoudend		11	—		Shale, carbonaceous.
Streepglanskool		6	—		**Coal,** bright banded.
Skalie, koolstofhoudend, en **steenkool**	1	6	—		Shale, carbonaceous, and **coa**

Bg. 21 (*Verv.*) B.H. 21 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
kalie....................	7	—	Shale.
eenkool, glansend en gestreep met wit vlekke	10	772 9	**Coal,** bright banded with white spots.
kalie met **steenkoollagies**..	5 10	778 7	Shale with thin **coal** bands.
anskool, met skaliestrepies; 75 % **steenkool**	1 8	—	**Coal,** bright, with shale streaks; 75% **coal.**
kalie....................	6	—	Shale.
anskool, met skaliestrepies; 75 % **steenkool**	1 3	782 0	**Coal,** bright, with shale streaks; 75 % **coal.**
kalie met **steenkoollagies**..	3 2	—	Shale with **coal** bands.
eenkool..................	3	—	**Coal.**
kalie....................	1 6	786 11	Shale.
anskool met skalielagies; 50 % **steenkool**	1 0	—	**Coal,** bright, with shale bands; 50 % **coal.**
kalie....................	9	—	Shale.
eenkool, oorwegend glansend, met wit vlekkies	1 3	—	**Coal,** mainly bright, with white spots.
eenkool en skalie in dun strepies	4	—	**Coal** and shale in thin streaks.
anskool..................	6	—	**Coal,** bright.
kalie....................	3	—	Shale.
enkool met skaliestrepies	11	—	**Coal,** bright, with shale streaks.
alie, sanderig..........	3	—	Shale, sandy.
anskool met skaliestrepies	11	793 1	**Coal,** bright, with shale streaks.
alie met **steenkoollagies**..	6 0	799 1	Shale with **coal** bands.
anskool- en koolstofhoudende skalielagies van 4″ tot 6″ om die beurt; 50 % **steenkool**	3 6	807 3	**Coal,** bright, and carbonaceous shale bands of 4″–6″, alternating; 50 % **coal.**
Skalie met **steenkoollagies**	2 2	809 5	Shale with **coal** bands.
enkool..................	4	—	**Coal.**
alie....................	9	—	Shale.
eenkool..................	5	—	**Coal.**
alie, koolstofhoudend....	1 0	811 11	Shale, carbonaceous.
anskool- en koolstofhoudende skalielagies van 4″–8″ om die beurt; 50 % **steenkool**	5 0	816 11	**Coal,** bright, and carbonaceous shale bands of 4″–8″, alternating; 50 % **coal.**
lie, koolstofhoudend....	1 5	—	Shale, carbonaceous.
enkool, dof............	6 4	824 8	**Coal,** dull.
eiskalie, grys, met **steenkoollensies**	9	—	Clayshale, grey, with **coal** lenses.
enkool, dof............	1 5	826 10	**Coal,** dull.
Skalie, koolstofhoudend..	2 2	829 0	Shale, carbonaceous.
enkool, dof skalieagtig..	5 10	834 10	**Coal,** dull shaly.
lie, sanderig, effens koolstofhoudend	6	—	Shale, sandy, slightly carbonaceous.
alie, koolstofhoudend....	2 1	837 5	Shale, carbonaceous.
enkool- dof, swakgehalte, skalieagtig ten dele	2 11	—	**Coal,** dull, poor quality, shaly in parts.
nskool- en koolstofhouende skalielagies van 3″–″ om die beurt; 75 % **teenkool**	3 0	843 6	**Coal,** bright, and carbonaceous shale bands of 3″–6″, alternating; 75 % **coal.**
lie....................	2 5	—	Shale.
enkool..................	2	846 1	**Coal.**
dsteen, skalieagtig grysruin	2 2	—	Sandstone, shaly greyish brown.
lie, koolstofhoudend, met **teenkoollensies**	2	—	Shale, carbonaceous, with **coal** lenses.
dsteen, middelkorrelrig rysbruin	6	—	Sandstone, medium-grained greyish brown.

Bg. 21 (*Verv.*) B.H. 21 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie, sanderig, bruingrys.	2	0	—		Shale, sandy greyish brown.
Sandsteen met **steenkoolstrepies** bruingrys	1	8	851	8	Sandstone with **coal** ban greyish brown.
Skalie, sanderig, met lagies wit middelkorrelrige sandsteen tot 6″ dik	5	1	—		Shale, sandy, with bands white medium-grained sa stone up to 6″ thick.
Sandsteen, middelkorrelrig tot grofkorrelrig wit, met enkele dun skalieagtige lagies in	2	7	—		Sandstone, medium-grained coarse-grained white, w some thin shaly bands in
Sandsteen, skalieagtig en sanderige skalie met lagies wit middelkorrelrige sandsteen grysswart skalie daarin	6	0	—		Sandstone, shaly and san with bands of white mediu grained sandstone a greyish black shale in it
Grintsteen, wit veldspaties.	6	3	871	7	Grit, white feldspathic.
Sandsteen, grofkorrelrig veldspaties, en sanderige grys skalie met Glossopteris in afwisselende lagies	6	11	—		Sandstone, coarse-grai feldspathic, and sandy g shale with Glossopteris alternating bands.
Grintsteen, wit, veldspaties.	2	0	880	8	Grit, white, feldspathic.
Sandsteen, grofkorrelrig wit, veldspaties met dun grysbruin skalielagies	2	10	—		Sandstone, coarse-grai white, feldspathic with t greyish brown shale ban
Sandsteen, grofkorrelrig wit, veldspaties bevattende piriet	2	3	—		Sandstone, coarse-grai white, feldspathic contain pyrite.
Skalie, sanderig grysbruin, met sandsteenlagies; bevat glossopteris	3	2	888	0	Shale, sandy greyish bro with sandstone bands. C taining glossopteris.
Skalie, koolstofhoudend....	7	6	—		Shale, carbonaceous.
Skalie, sanderig swart......		8	—		Shale, sandy black.
Skalie, koolstofhoudend, met dun glanskoolstrepies	1	3	—		Shale, carbonaceous, with t bright coal streaks.
Skalie, sanderig swart.....	2	2	—		Shale, sandy black.
Skalie, koolstofhoudend....		6	—		Shale, carbonaceous.
Skalie, sanderig swart.....	2	4	—		Shale, sandy black.
Sandsteen, grofkorrelrig wit veldspaties piriethoudend	3	3	906	7	Sandstone, coarse-grai white feldspathic pyritic.
Skalie, koolstofhoudend, met **glanskoolstrepies**; bevat glossopteris		9	—		Shale, carbonaceous, w bright **coal** streaks; c taining glossopteris.
Sandsteen, grofkorrelrig kleiïg	1	2	—		Sandstone, coarse-grai argillaceous.
Skalie, sanderig, grys; bevat glossopteris	1	2	—		Shale, sandy, grey; contain glossopteris.
Sandsteen, grofkorrelrig wit veldspaties, met enkele lensies **steenkool** en koolstofhoudende skalie	1	10	—		Sandstone, coarse-grai white feldspathic with so lenses of **coal** and carbona ous shale.
Steenkool, dof, met **glanskoolstrepies** en skalielensies	2	2	913	3	**Coal,** dull, with bright c streaks and shale lenses.
Skalie, swart, sanderig.....	2	7	—		Shale, black sandy.
Steenkool, dof, met **glanskoolstrepe** en skalielensies; bevat baie piriet	1	6	917	9	**Coal,** dull, with bright c streaks and shale lens Contains much pyrite.
Skalie, hier en daar sanderig en verder koolstofhoudend	3	3	921	0	Shale, sandy in parts and t rest carbonaceous.
Sandsteen, wit, met pirietknol		7	—		Sandstone, white, with pyr nodule.
Steenkool, dof, met **glanskoolstrepies**		9	922	4	**Coal,** dull, with bright c streaks.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
Skalie, sanderig en koolstofhoudend	1	3	923	7	Shale, sandy carbonaceous.
Skalie, koolstofhoudend....		7	—		Shale, carbonaceous.
Steenkool, dof, met skalielagies en **glanskoollagies**	2	0	—		**Coal,** dull, with shale and bright **coal** bands.
Sandsteen met **steenkoollensies**		3	—		Sandstone with lenses of **coal.**
Sandsteen, wit middelkorrelrig; bevat piriet		3	—		Sandstone, white medium-grained, containing pyrite.
Sandsteen, grys skalieagtig met glossopteris en gangamopteris	1	8	—		Sandstone, grey, shaly, with glossopteris and gangamopteris.
Steenkool, dof.............	7	4	938	6	**Coal,** dull.
Skalie, koolstofhoudend met sanderige dele en enkele **glanskoollensies**	3	2	—		Shale, carbonaceous with sandy parts and some bright **coal bands.**
Skalie, sanderig en koolstofhoudend; bevat stukkies wit sandsteen	2	7	—		Shale, sandy and carbonaceous containing pieces of white sandstone.
Skalie, koolagtig...........	1	10	—		Shale, coaly.
Skalie, sanderig koolstofhoudend	5	1	951	2	Shale, sandy carbonaceous.
Sandsteen, koolstofhoudend grofkorrelrig met koolstofhoudende skalielagies	9	5	960	9	Sandstone, carbonaceous coarse-grained, with carbonaceous shale bands.

BOORGAT 21 : WILDEBEESTPAN 355 : BOREHOLE 21.

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.		Nature of Strata.
		Dm. In.	*Vt. Ft.*	*Dm. In.*	
	—	—	640	9	—
M 203	**Steenkool,** gestreep, baie glansend	20	642	5	**Coal,** very bright banded.
M 204	**Steenkool,** oorwegend baie glansend gestreep; piriethoudend; met enkele dowwe lagies	12	658 659	0 0	**Coal,** mainly very bright banded; pyritic; with a few dull bands.
M 205	—	—	663	6	—
K.	**Steenkool,** glansend gestreep; met kalsiet en koolstofhoudende skalie; beurtelings 4″–6″ lagies; 50 % **steenkool**	38	—		**Coal,** bright, banded, with calcite and carbonaceous shale; alternating 4″–6″ bands 50 % **coal.**
J.	**Steenkool,** glansend gestreep, met kalsiet, en koolstofhoudende skalie; 4″–12″ lagies om die beurt	38	—		**Coal,** bright banded, with calcite, and carbonaceous shale; alternating 4″–12″ bands.

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
H.	**Steenkool,** glansend gestreep, met kalsiet, en koolstofhoudende skalie; beurtelings 4″–6″ lagies	38	—	**Coal,** bright banded, with calcite, and carbonaceous shale; alternating 4″–6″ bands.
	Glanskool en koolstofhoudende skalie, **N.G.**	12	—	**Coal,** bright, and carbonaceous Shale, **N.S.**
G.	**Steenkool,** glansend gestreep met dun skaliestrepies	16	—	**Coal,** bright banded, with thin shale streaks.
	Skalie, koolstofhoudend, met **glanskoolstrepies, N.G.**	9	—	Shale, carbonaceous, with bright **coal** streaks, **N.S.**
F.	**Glanskool** en koolstofhoudende skalie met 1″ koolstofhoudende sandsteen; 75 % **steenkool**	56	—	**Coal,** bright, and carbonaceous shale with 1″ carbonaceous sandstone; 75 % **coal.**
	Skalie, **N.G.**	10	—	Shale, **N.S.**
E.	**Glanskool** en skalie met baie glyvlakke	29	—	**Coal,** bright and shale with numerous slickensides.
D.	**Steenkool** en skalie, 2″–8″ lagies om die beurt; 50 % **steenkool**	27	—	**Coal** and shale, 2″–8″ bands alternating; 50 % **coal.**
C.	**Steenkool,** glansend gestreep met dun skaliestrepies	17	—	**Coal,** bright banded with thin shale streaks.
	Skalie, koolstofhoudend, en **steenkool, N.G.**	24	—	Shale, carbonaceous and **coal, N.S.**
B.	**Steenkool,** glansend gestreep met 2″ koolstofhoudende skalie 15″ van bo	50	—	**Coal,** bright banded, with 2″ carbonaceous shale 15″ from top.
	Skalie, koolstofhoudend, **N.G.**	3	—	Shale, carbonaceous, **N.S.**
	Steenkool, gestreep glansend piriethoudend, **N.G.**	2	—	**Coal,** bright banded pyritic, **N.S.**
	Skalie, koolstofhoudend, **N.G.**	6	—	shale, carbonaceous, **N.S.**
A.	**Steenkool,** oorwegend glansend met skalie strepe tot 1″ dik	38	698 11	**Coal,** mainly bright, with shale streaks up to 1″ thick.
M 206	...	—	706 10	—
C.	**Steenkool,** glansend, gestreep met skaliestrepies	37	—	**Coal,** bright banded with shale streaks.
	Skalie, koolstofhoudend, **N.G.**	7	—	Shale, carbonaceous, **N.S.**
B.	**Steenkool,** glansend gestreep met enkele dun skaliestrepies	19	—	**Coal,** bright banded, with a few thin shale streaks.
	Skalie, koolstofhoudend	17	—	Shale, carbonaceous.
A.	**Steenkool,** glansend gestreep met 'n 2″ dowwe korrelrige lagie in die middel	23	715 5	**Coal,** bright banded, with a 2″ dull ganular band in centre.

No. van monster B.-N.-I. F.R.I. ampl· No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
207	—	—	720 11	—
L.	**Steenkool,** glansend gestreep met 3″ koolstofhoudende skalie 3″ van bo	19	—	**Coal,** bright banded, with 3″ carbonaceous shale 3″ from top.
	Skalie, **N.G.**..........	20	—	Shale, **N.S.**
K.	**Steenkool,** glansend gestreep met 2 × ½″ en 1 × 2″ skalielagies	23	—	**Coal,** bright banded, with 2 × ½″ and 1 × 2″ shale bands.
	Skalie, **N.G.**..........	20	—	Shale, **N.S.**
J.	**Steenkool,** oorwegend glansend, gestreep, met dun skaliestrepies ; 4″ koolstofhoudende skalie 6″ van onderaf	44	—	**Coal,** mainly bright banded, with thin shale streaks ; 4″ carbonaceous shale 6″ from bottom.
H.	**Steenkool** met dun skaliestrepies ; en koolstofhoudende skalie beurtelings ; 50 % **steenkool** 4″–8″ **steenkoollagies**	40	—	**Coal** with thin shale streaks, and carbonaceous shale in alternating bands ; 50 % **coal,** 4″–8″ **coal bands.**
	Skalie, koolstofhoudend, **N.G.**	6	—	Shale, carbonaceous, **N.S.**
F.	**Steenkool,** glansend gestreep	11	—	**Coal,** bright banded.
	Skalie, koolstofhoudend met glansende **steenkoolstrepe, N.G.**	17	—	Shale, carbonaceous, with bright **coal** streaks, **N.S.**
E.	**Steenkool,** glansend gestreep	20	—	**Coal,** bright banded.
D.	**Steenkool,** glansend, en koolstofhoudende skalielagies, 4″–8″ dik, om die beurt ; 50% **steenkool**	26	—	**Coal,** bright, and carbonaceous shale bands, 4″–8″ thick, alternating ; 50 % **coal.**
C.	**Steenkool,** glansend, en koolstofhoudende skalie, 4″–8″ lagies om die beurt ; 50 % steenkool	20	—	**Coal,** bright, and carbonaceous shale, alternating bands of 4″–8″ ; 50 % **coal.**
	Skalie, koolstofhoudend met 3″ **glanskoollagie** in middel, **N.G.**	20	—	Shale, carbonaceous with 3″ band of bright **coal** in centre, **N.S.**
	Steenkool, glansend, en koolstofhoudende skalie, 4″–8″ lagies beurtelings ; 25 % **steenkool, N.G.**	48	—	**Coal,** bright, and carbonaceous shale, 4″–8″ bands alternating ; 25 % **coal, N.S.**
B.	**Steenkool,** glansend, gestreep	10	—	**Coal,** bright banded.
	Skalie, koolstofhoudend, **N.G.**	8	—	Shale, carbonaceous, **N.S.**
A.	**Steenkool,** glansend gestreep, met 2″ koolstofhoudende skalie en enkele dun skalieagtige sandsteenlagies ; 75 % **steenkool**	38	756 0	**Coal,** bright banded, with 2″ carbonaceous shale and some thin shaly sandstone bands ; 75 % **coal.**

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
M 208	—	—	759 2	—
E.	**Steenkool,** glansend gestreep	7	—	**Coal,** bright banded.
	Skalie, **N.G.**..........	23	—	Shale, **N.S.**
D.	**Steenkool,** glansend met skaliestrepies en koolstofhoudende skalie, 4″–8″ lagies beurtelings ; 50% **steenkool**	43	—	**Coal,** bright, with shal streaks and carbona aceous shale, 4″–8 bands alternating 50 % **coal.**
C.	**Steenkool,** glansend met skaliestrepies en koolstofhoudende saklie ; 2″–8″ lagies om die beurt ; 50% **steenkool**	40	—	**Coal,** bright, with shal streaks and carbona ceous shale, 2″–8 bands alternating 50 % **coal.**
	Skalie, koolstofhoudend	11	—	Shale, carbonaceous.
B.	**Steenkool,** dungelaagd, glansend	6	—	**Coal,** fine - banded bright.
	Skalie, koolstofhoudend, **N.G.**	9	—	Shale, carbonaceous **N.S.**
	Skalie, koolstofhoudend en **steenkool, N.G.**	9	—	Shale, carbonaceou and **coal, N.S.**
	Skalie, **N.G.**..........	7	—	Shale, **N.S.**
A.	**Steenkool,** glansend gestreep, met wit vlekkies	10	772 9	**Coal,** bright banded with white stains.
M 209	—	—	778 7	—
B.	**Steenkool,** glansend met skaliestrepies ; 75 % **steenkool**	20	—	**Coal,** bright, with shal streaks, 75 % **coal.**
	Skalie, **N.G.**..........	6	—	Shale, **N.S.**
A.	**Steenkool,** glansend met skaliestrepies ; 75 % **steenkool**	15	782 0	**Coal,** bright, with shal streaks ; 75 % **coal.**
M 210	—	—	786 11	—
E.	**Steenkool,** glansend, en skalielagies ; 50 % **steenkool**	12	—	**Coal,** bright, and shal bands ; 50 % **coal.**
	Skalie, **N.G.**..........	9	—	Shale, **N.S.**
D.	**Steenkool,** oorwegend glansend met wit vlekkies	15	—	**Coal,** mainly very brigh with white stains.
	Steenkool en skalie as dun lagies, **N.G.**	4	—	**Coal** and shale in thi bands, **N.S.**
C	**Glanskool**...........	6	—	**Coal,** bright.
	Skalie, **N.G.**..........	3	—	Shale, **N.S.**
B.	**Steenkool,** glansend met skaliestrepies	11	—	**Coal,** bright, with shal streaks.
	Skalie, sanderig, **N.G.**.	3	—	Shale, sandy, **N.S.**
A.	**Steenkool,** glansend met skaliestrepies	11	793 1	**Coal,** bright, with shal streaks.

Bg. 21 (*Verv.*) B.H. 21 (*Contd.*)

o. van nonster B.-N.-I. F.R.I. mple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
211	—	—	799 1	—
B.	**Steenkool,** glansend, en koolstofhoudende skalie, afwiselende 4″–6″ lagies; 75 % **steenkool**	46	—	**Coal,** bright, and carbonaceous shale, alternating bands 4″–6″ thick; 75 % **coal.**
	Skalie, **N.G.**..........	10	—	Shale, **N.S.**
A.	**Steenkool,** glansend, en koolstofhoudende skalie 4″–6″ lagies beurtelings; 50 % steenkool	42	807 3	**Coal,** bright, and carboaceous shale, alternating bands 4″–6″ thick 50 % **coal.**
212	—	—	811 11	—
	Steenkool, glansend, en koolstofhoudende skalie, 4″–6″ lagies beurtelings; 50 % **steenkool**	60	816 11	**Coal,** bright, and carbonaceous shale, alternating 4″.8″ bands; 50 % **coal.**
213	—	—	829 0	—
	Steenkool, dof skalieagtig	70	834 10	**Coal,** dull shaly.
214	—	—	837 5	—
B.	**Steenkool,** dof, minderwaardig, hier en daar skalieagtig	35	—	**Coal,** dull, inferior, shaly in parts.
	Steenkool, glansend, en koolstofhoudende skalie, 3″–6″ lagies beurtelings; 70 % **steenkool**	38	843 6	**Coal,** bright, and carbonaceous shale, 3″–6″ alternating bands; 75 % **coal.**

Bg. 21 (*Verv.*) B.H. 21 (*Contd.*)

BOORGAT 21 : WILDEBEESTPAN 355 : BOREHOLE 21.

KORTANALISES—PROXIMATE ANALYSES.

Nommer. van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No. Fl. 1·6.
M 203	20	10·9	2·9	20·5	33·7	42·9	53·9	7·1	73·5	10·3	2½	2½
M 204	12	11·0	3·1	19·1	33·5	44·3	57·8	6·7	84·8	14·2	1½	1
M 205 K	38	—	2·6	47·5	22·1	27·8	—	—	—	—	—	—
J	38	—	2·6	54·0	18·7	24·7	—	—	—	—	—	—
H	38	—	2·7	52·8	19·1	25·4	—	—	—	—	—	—
G	16	—	3·1	27·4	29·4	40·1	26·7	6·2	61·1	11·0	2	2
F	56	—	2·8	40·6	24·0	32·6	25·5	6·7	47·1	11·1	2	1½
E	29	—	2·5	35·7	27·8	34·0	24·6	8·3	50·2	14·6	2½	2½
D	27	—	2·7	42·0	23·6	31·0	21·4	7·3	40·9	14·3	2	1½
C	17	—	3·3	24·2	30·5	42·0	46·5	7·0	74·3	14·8	1½	1½
B	50	10·9	3·2	21·9	31·3	43·6	59·3	6·6	73·3	10·7	2	2
A	38	—	2·4	32·7	29·5	34·5	35·2	8·2	54·5	12·2	1½	1½
M 206 C	37	10·6	3·0	23·3	30·6	43·1	56·7	7·9	73·3	12·4	2	1½
B	19	—	2·8	25·5	30·7	41·0	46·8	8·8	71·6	14·5	1½	1½
A	23	10·6	2·8	22·6	35·0	39·6	45·6	8·8	74·3	12·0	2½	2
M 207 L	19	—	2·6	39·6	26·5	31·3	25·5	8·9	50·0	12·4	1½	1½
K	23	—	2·8	31·5	28·0	37·7	29·9	8·8	60·7	13·7	2	1
J	44	—	2·8	35·6	26·5	35·1	24·6	8·0	48·4	12·7	1½	1½
H	40	—	2·6	40·7	25·3	31·4	13·7	9·7	40·1	15·6	2½	1½
G	40	—	2·7	39·6	25·2	43·4	23·8	7·5	34·0	11·6	2	2
F	11	11·1	3·0	19·4	34·2	43·4	59·8	6·0	74·4	12·2	2½	1½

BOORGAT 21 : WILDEBEESTPAN 355 : BOREHOLE 21.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
M 207 E	20	—	3·0	26·6	32·2	38·2	44·8	7·6	65·0	11·6	1½	1½
D	26	—	2·4	49·7	21·3	26·6	—	—	—	—	—	—
C	20	—	2·6	42·3	23·5	31·6	—	—	—	—	—	—
B	10	—	3·0	21·4	32·6	43·0	55·6	6·7	72·7	10·8	2	2
M 207 A	38	—	2·1	44·7	27·3	25·9	—	—	—	—	—	—
M 208 E	7	—	2·9	22·0	32·4	42·7	46·1	7·9	72·2	11·9	1	1f
D	43	—	2·4	38·4	27·5	31·7	21·8	7·3	37·0	12·2	2	1
C	40	—	2·1	44·9	24·9	28·1	—	—	—	—	—	—
B	6	—	2·6	22·9	33·5	41·0	55·8	9·7	75·6	14·1	2½	2
A	10	—	2·7	24·3	32·0	41·0	41·6	10·3	73·4	15·4	1½	1
M 209 B	20	—	2·5	32·0	28·6	36·9	35·8	7·3	52·2	11·5	2	1
A	15	—	2·5	37·6	24·7	35·2	24·2	6·7	42·1	11·8	1½	1½
M 210 E	12	—	1·9	44·3	23·5	30·3	—	—	—	—	—	—
D	15	11·2	2·7	19·8	32·8	44·7	56·2	7·2	77·9	9·8	1½	1½
C	6	—	2·7	21·9	36·6	38·8	46·3	6·7	72·7	8·1	2	1½
B	11	—	2·8	21·3	36·3	39·6	53·3	6·3	73·4	8·3	1	1
A	11	—	2·3	34·3	34·4	29·0	27·5	5·7	45·2	9·4	2	2
M 211 B	46	—	2·3	32·5	26·4	38·8	29·9	7·3	53·5	10·4	2½	1½
A	42	—	2·1	38·7	26·7	32·5	22·0	6·5	40·6	8·8	1½	1
M 212	60	—	2·5	33·5	26·2	37·8	22·2	6·5	45·0	11·5	1	1
M 213	70	—	2·1	47·0	19·2	31·7	—	—	—	—	—	—
M 214 B	35	—	2·5	39·1	20·3	38·1	3·8	8·8	17·8	14·6	1f	—
A	38	—	2·3	30·8	26·9	39·0	28·4	6·6	44·0	10·2	1½	1

BOORGAT 22 : BERGEN OP ZOOM 646 : BOREHOLE 22.

Kern ⅞ dm. Core ⅞ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Grond....................	2	6	—		Soil.
Kalksteen, hard, sanderig..	2	6	—		Limestone, hard, sandy.
Sand en kalksteengruis....	11	0	16	0	Sand and limestone gravel.
Moddersteen, rooi, kalkhoudend, sanderig	47	0	63	0	Mudstone, red, calcareo sandy.
Moddersteen, sanderig.....	8	0	71	0	Mudstone, sandy.
Moddersteen, sanderig, kalkhoudend		5	—		Mudstone, sandy, calcareou
Sandsteen, middelkorrelrig bruin en geel met 'n dun skaliestreep	2	11	—		Sandstone, medium-grain brown and yellow, with thin shale streek.
Sandsteen, bruin, middelkorrelrig tot grofkorrelrig met grintsteenlagies	10	0	—		Sandstone, brown, mediu grained to coarse-grain with gritbands.
Skalie, sanderig, mikahoudend, bruin		5	—		Shale, sandy, micaceou brown.
Sandsteen, fynkorrelrig bruin, met grintsteen bo in	1	2	—		Sandstone, fine-grained brow with grit at top.
Sandsteen en grintsteen, bruin met wit spikkels	6	0	97	0	Sandstone and grit, brow with white spots.
Sandsteen en grintsteen, bruin met wit spikkels	15	1	117	0	Sandstone and grit, brow with white spots.
Sandsteen, grintsteen en konglomeraat, bruin met wit spikkels. Die onderste paar duim sandsteen is verweerd; kwartskorrels in limoniet	11	2	137	1	Sandstone, grit and congl merate, brown with whi spots. The bottom fe inches of sandstone weathered; quarts grai in limonite.
Moddersteen, meesal rooi met groen en grys dele, hard, baie kalsiet in nate	13	10	156	0	Mudstone, mainly red wi green and grey portion hard, much calcite in t joints.
Moddersteen, rooi-grys en grysgroen, baie nate vol kalsiet, onderste deel vol piriet	15	1	177	0	Mudstone, red grey and greyi green, many joints full calcite, bottom portion fu of pyrite.
Moddersteen, hard, grys, baie piriet	8	0	185	0	Mudstone, hard, grey, mu pyrite.
Steenkool, gemeng, skalieagtig, dof en glansend	1	2	186	9	**Coal,** mixed shaly dull ar bright.
Skalie, koolstofhoudend....		8	187	5	Shale, carbonaceous.
Glanskool, met skaliestrepies		11	188	4	**Coal,** bright, with shale streak
Skalie, koolstofhoudend....	1	3	—		Shale, carbonaceous.
Glanskool, baie kalsiet.....		3	190	6	**Coal,** bright, much calcite.
Skalie, koolstofhoudend met enkele **steenkoolstrepe**	4	5	—		Shale, carbonaceous with few **coal** streaks.
Glanskool met baie kalsiet.		5	195	8	**Coal;** bright, with much calci
Skalie, koolstofhoudend....		7	—		Shale, carbonaceous.
Steenkool, glansend en dof.		4	197	0	**Coal,** dull and bright.
Skalie, koolstofhoudend....	1	7	—		Shale, carbonaceous.
Steenkool, glansende en skalieagtigelagies	1	8	201	5	**Coal,** bright and shaly banc
Skalie, koolstofhoudend, met 1" sanderige mikahoudende lagie in middel		10	—		Shale, carbonaceous, with sandy micaceous band centre.
Steenkool, glansend met skalieagtige strepe	1	2	205	0	**Coal,** bright with sha streaks.
Skalie, koolstofhoudend....	1	9	—		Shale, carbonaceous.
Steenkool, oorwegend glansend met baie piriet	1	8	209	8	**Coal,** mainly bright, with mu pyrite.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
alie, met **steenkoolstrepies**	1	9	—		Shale with **coal** streaks.
enkool, glansend, dof en kalieagtige lagies	3	2	216	2	**Coal,** bright, dull and shaly bands.
alie		8	—		Shale.
enkool en skalie	1	6	218	10	**Coal** and shale.
lie, koolstofhoudend		10	—		Shale, carbonaceous.
nskool en skalie	1	2	221	10	**Coal,** bright, and shale.
alie		8	—		Shale.
enkool, oorwegend glan- end, met skaliestrepe	1	3	224	1	**Coal,** predominantly bright, with shale bands.
alie met **steenkoolstrepe**		8	—		Shale with **coal** streaks.
nskool met baie kalsiet.		10	226	6	**Coal,** bright, with much calcite.
alie, koolstofhoudend	2	5	—		Shale, carbonaceous.
nskool	1	4	231	5	**Coal,** bright.
alie, koolstofhoudend	2	11	—		Shale, carbonaceous.
enkool, dof		6	235	7	**Coal,** dull.
alie, bo koolstofhoudend, nder grys	9	4	247	1	Shale, top carbonaceous, bottom grey.
eiskalie, grys met baie riet	3	10	—		Clayshale, grey with much pyrite.
dsteen, grys, kleiïg	5	11	257	0	Sandstone, grey argillaceous.
dsteen, grys, kleiïg	7	10	—		Sandstone, grey argillaceous.
dsteen, rooi, kleiïg	2	2	267	0	Sandstone, red argillaceous.
dsteen, grys, kleiïg	2	5	—		Sandstone, grey argillaceous.
niet, gneisagtig, gryswit, ffens verweer	26	4	297	0	Granite, gneissose, greyish white, slightly weathered.

BOORGAT 23 : NIEUWE HOLLAND 682 : BOREHOLE 23.

Kern $\frac{7}{8}$ dm.   Core $\frac{7}{8}$ in.

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
nd	2	—	Soil.
lksteen	4	—	Limestone.
d en gruis	4	—	Sand and gravel.
dsteen en grintsteen, wit n geel	23	33	Sandstone and grit, white and yellow.
ddersteen, grys en per- agtig	54	87	Mudstone, grey and purplish.

BOORGAT 24 : RAMUSIO 1234 : BOREHOLE 24.

Kern $\frac{7}{8}$ dm. Core $\frac{7}{8}$ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
Grond....................	17	0	17	0	Soil.
Sandsteen, wit, fynkorrelrig	90	0	107	0	Sandstone, white, fine-graine
Sandsteen, wit, pers en ligrooi om die beurt, fynkorrelrig (Rooi-lae)	6	1	113	1	Sandstone, white, purple a light red alternating, fin grained. (Red beds.)
Sandsteen, wit en ligrooi om die beurt, fynkorrelrig	12	4	—		Sandstone, white and light r alternating, fine-grained.
Sandsteen, wit, fynkorrelrig	61	1	—		Sandstone, white, fine-graine
Sandsteen, wit en ligrooi beurtelings, fynkorrelrig	41	11	—		Sandstone, white and light r alternating, fine-grained.
Sandsteen, ligrooi met wit Sasoorte, fynkorrelrig	69	0	—		Sandstone, light red with whi variations, fine-grained.
ndsteen, wit, met 'n paar voet ligrooi sandsteen na onder, fynkorrelrig	31	10	329	3	Sandstone, white, with a f feet light red sandstone bottom, fine-grained.
Sandsteen, wit en ligrooi, fynkorrelrig	16	4	—		Sandstone, white and light-re fine-grained.
Sandsteen, ligrooi met wit soorte, fynkorrelrig	25	0	—		Sandstone, light-red with whi variations, fine-grained.
Sandsteen, wit, fynkorrelrig	12	0	—		Sandstone, white, fine-graine
Sandsteen, ligrooi, met wit soorte na onder, fynkorrelrig	13	4	—		Sandstone, light red with whi variations at bottom, fin grained.
Sandsteen, ligrooi en wit, fynkorrelrig	42	4	—		Sandstone, light red and whit fine-grained.
Sandsteen, wit, fynkorrelrig	8	0	446	3	Sandstone, white, fine-graine
Sandsteen, wit, grofkorrelrig. (Molteno)		3	446	6	Sandstone, white, coars grained (Molteno).
Sandsteen, wit, fynkorrelrig	6	3	—		Sandstone, white, fine-graine
Sandsteen, wit, grofkorrelrig tot grintagtig hier en daar	2	5	—		Sandstone, white, coars grained to gritty in places
Moddersteen, liggroen met 4″ grofkorrelrige sandsteen	1	10	—		Mudstone, light green with coarse-grained sandstone.
Sandsteen, wit en ligrooi, fynkorrelrig	2	3	—		Sandstone, white and light re fine-grained.
Moddersteen, ligrooi met kwartskorrels hier en daar	3	7	—		Mudstone, light red with occasional quartzgrain.
Moddersteen, liggroen en ligpers met baie kwartskorrels	2	2	—		Mudstone, light green and lig purple with many quar grains.
Sandsteen, gryswit, grofkorrelrig met onderste 6 ft. grintagtig	19	4	484	4	Sandstone, greyish whit coarse-grained with botto 6 ft. gritty.
Moddersteen, ligpers.......	115	8	600	0	Mudstone, light purple.
Moddersteen, pers.........	1	6	—		Mudstone, purple.
Moddersteen, liggeel.......	1	9	—		Mudstone, light yellow.
Moddersteen, fyn-sanderig, lig-grys	50	3	—		Mudstone, fine-sandy, lig grey.
Moddersteen, donker-grys, effens piriethoudend	3	6	657	0	Mudstone, dark grey, carries little pyrites.
Skalie, swart..............		11	657	11	Shale, black.
Glanskool en skalie........	2	5	660	4	**Coal,** bright, and shale.
Skalie met dun **steenkoollagies**		5	—		Shale, with thin **coal** bands
Glanskool en skalie........	1	1	—		**Coal,** bright, and shale.
Glanskool................		4	—		**Coal,** bright.
Skalie, swart..............		1	—		Shale, black.
Glanskool met skalie bande	3	3	665	6	**Coal,** bright, with shale ban
Skalie, swart, met 'n ¼″ **steenkoollagie**	2	6	—		Shale, black, with a ¼″ **c** band.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
teenkool en skalie		2	—		**Coal** and shale.
kalie, koolstofhoudend	9	11	—		Shale, carbonaceous.
lanskool en dowwe steenkool	1	9	679	10	**Coal,** bright and dull.
kalie, koolstofhoudend	1	2	—		Shale, carbonaceous.
lanskool	1	5	682	5	**Coal,** bright.
kalie		6	—		Shale.
teenkool, dof		10	—		**Coal,** dull.
kalie		7	—		Shale.
lanskool en dowwe steenkool		6	—		**Coal,** bright and dull.
kalie		5	—		Shale.
lanskool en dowwe steenkool		5	—		**Coal,** bright and dull.
kalie		4	—		Shale.
teenkool, oorwegend glansend		10	—		**Coal,** mainly bright.
Skalie		4	—		Shale.
teenkool, oorwegend glansend	3	10	691	0	**Coal,** mainly bright.
kalie	1	6	—		Shale.
lanskool met skalielagies		8	—		**Coal,** bright, with shale bands.
kalie		3	—		Shale.
lanskool met skalielae	1	1	—		**Coal,** bright, with shale bands.
kalie		3	—		Shale.
lanskool met skalielae, piriethoudend	1	5	—		**Coal,** bright, with shale bands, pyritic.
kalie		10	—		Shale.
eenkool en skalie, **steenkool** oorwegend	6	3	703	3	**Coal** and shale, mainly **coal.**
alie		10	—		Shale.
anskool	1	2	705	3	**Coal,** bright.
alie		9	—		Shale.
eenkool, piriethoudend		7	—		**Coal,** pyritic.
alie	1	0	—		Shale.
eenkool en skalie	1	0	—		**Coal** and shale.
alie		11	—		Shale.
eenkool met skalielae		6	—		**Coal,** with shale bands.
alie, koolstofhoudend	2	2	—		Shale, carbonaceous.
eenkool, glansend en dof, met baie skalielae	2	7	—		**Coal,** bright and dull with many shale bands.
alie	1	5	—		Shale.
lanskool met 'n paar skaliebande		10	—		**Coal,** bright, with a few shale bands.
alie	1	0	—		Shale.
eenkool en skalie, **steenkool** oorwegend	8	10	726	10	**Coal** and shale, mainly **coal.**
alie		3	—		Shale.
eenkool met skalielae	5	1	732	2	**Coal** with shale bands.
alie		4	—		Shale.
anskool, met 2″ skalielaag naby bo-ent	3	0	735	6	**Coal,** bright, with 2″ shale band near top.
alie		10	—		Shale.
eenkool en skalie	1	2	—		**Coal** and shale.
alie	1	10	—		Shale.
anskool en skalie, **steenkool** oorwegend	3	0	—		**Coal,** bright and shale, mainly **coal.**
alie, koolstof houdend	1	8	—		Shale, carbonaceous.
anskool met skalielaag	2	9	746	9	**Coal,** bright, with shale bands.
anskool		11	—		**Coal,** bright.
eenkool en skalie		8	—		**Coal** and shale.
alie		8	—		Shale.
anskool		7	—		**Coal,** bright.

Bg. 24 (*Verv.*) B.H. 24 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Skalie	3 2	—	Shale.
Steenkool en skalie	11	—	**Coal** and shale.
Glanskool met skalielae, piriethoudend	1 5	—	**Coal,** bright. with shale banc pyritic.
Steenkool en skalie	19 11	775 0	**Coal** and shale.
Skalie	11	—	Shale.
Steenkool	5	—	**Coal.**
Skalie	5	—	Shale.
Steenkool	10	—	**Coal.**
Skalie	3 4	—	Shale.
Steenkool	1 5	782 4	**Coal.**
Skalie	1 9	—	Shale.
Steenkool	5	—	**Coal.**
Skalie	2 1	—	Shale.
Steenkool	10	—	**Coal.**
Skalie	4 5	—	Shale.
Steenkool	8	—	**Coal.**
Skalie	4 5	—	Shale.
Steenkool	5	—	**Coal.**
Skalie met **steenkoollagies**	9 8	—	Shale with **coal** bands.
Skalie	1 0	—	Shale.
Steenkool	6	—	**Coal.**
Skalie	7	—	shale.
Steenkool	11	—	**Coal.**
Skalie	3 10	—	Shale.
Steenkool	1 4	815 2	**Coal.**
Skalie met **steenkoollagies**	9 3	—	Shale with **coal** bands.
Steenkool	7	—	**Coal.**
Skalie	2 4	—	Shale.
Steenkool	6	—	**Coal.**
Skalie	2 4	—	Shale.
Steenkool	10	—	**Coal.**
Skalie met **steenkoollagies**	19 0	850 0	Shale with **coal** bands.

BOORGAT 25 : STERKWATER 411 : BOREHOLE 25.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Sand en grond	14 0	14 0	Sand and soil.
Moddersteen, bruinpers en grys, meer grys na onder toe	123 0	137 0	Mudstone, brownish purple a grey, more grey towai bottom.
Skalie, swart en grys strepe	3 10	140 10	Shale, black and grey band
Steenkool, glansende strepe oorwegend, plek-plek pikagtig met heelwat kalsiet en piriet	1 2	142 0	**Coal,** mainly bright banc pitchlike in parts, with mu calcite and pyrite.
Skalie, grys en swartgrys	6 0	148 0	Shale, grey and greyish blac
Steenkool	4	—	**Coal.**
Skalie, grys en swartgrys	3 9	152 1	Shale, grey and greyish blac
Steenkool, gemeng	9	—	**Coal,** mixed.

Bg. 25 (*Verv.*) B.H. 25 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie, grys en swartgrys..	2	9	155	7	Shale, grey and greyish black.
Streepglanskool, met piriet en kalsiet	1	2	156	9	**Coal,** bright banded, with pyrite and calcite.
Skalie met **steenkoolstrepe**..		10	—		Shale with **coal** streaks.
Steenkool, dof en glansend gemeng, met baie kalsiet	1	0	158	7	**Coal,** dull and bright, mixed with much calcite.
Skalie, grysswart..........	4	6	163	1	Shale, greyish black.
Steenkool, dof en skalieagtig met glanskoolstrepe	2	0	165	1	**Coal,** dull and shaly, with bright streaks.
Skalie, koolstofhoudend....		5	—		Shale, carbonaceous.
Steenkool, dof............	1	7	167	1	**Coal,** dull.
Skalie, koolstofhoudend....		6	—		Shale, carbonaceous.
Steenkool, skalieagtig met glansende strepies		5	168	0	**Coal,** shaly with bright streaks.
Skalie, koolstofhoudend....		3	—		Shale, carbonaceous.
Steenkool, gemeng.........		5	168	8	**Coal,** mixed.
Skalie, koolstofhoudend....		5	—		Shale, carbonaceous.
Steenkool en skalie........	1	0	170	1	**Coal** and shale.
Skalie, koolstofhoudend....	1	0	171	1	Shale, carbonaceous.
Skalie koolstofhoudend met lagies **glanskool** beurtelings, 25 % **steenkool**	2	5	—		Shale, carbonaceous, with alternating bands of bright **coal,** 25 % **coal.**
Skalie..................		5	—		Shale.
Glanskool en koolstofhoudende skalie, dun lagies om die beurt onderste 2″ wit gevlek	1	0	—		**Coal,** bright and carbonaceous shale, thin alternating bands, bottom 2″ spotted with white.
Skalie, koolstofhoudend....	1	3	—		Shale, carbonaceous.
Glanskool en koolstofhoudende skalie dun lagies om die beurt, 75% **steenkool**	1	10	—		**Coal,** bright, and carbonaceous shale, alternating thin bands, 75 % **coal.**
Skalie, koolstofhoudend....		6	—		Shale, carbonaceous.
Glanskool en koolstofhoudende skalie, dun lagies om die beurt, 50 % **steenkool**	1	10	—		**Coal,** bright, and carbonaceous shale, alternating thin bands, 50 % **coal.**
Skalie, koolstofhoudend....	1	1	—		Shale, carbonaceous.
Steenkool, dof............		10	—		**Coal, dull.**
Skalie, koolstofhoudend met dun lagies **glanskool,** baie glyvlakke, 25 % **steenkool**	2	11	—		Shale, carbonaceous, with thin bands of bright **coal,** numerous slickensides, 25 % **coal.**
Steenkool, glansend, met kubiese breuk enkele skalielagies, 75 % **steenkool**	1	3	—		**Coal,** bright, with cubical fracture, some shale bands, 75 % **coal.**
Skalie, koolstofhoudend....		4	—		Shale, carbonaceous.
Glanskool, ten dele gestreep, kubiese breuk, skalielagies daarin, 50 % **steenkool**	2	1	—		**Coal,** bright, partly banded, cubical fracture, shale bands in it, 50 % **coal.**
Streepglanskool, baie lig, enkele skalielagies en breë vitrietstrepe		11	—		**Coal,** bright banded, very light, few shale bands and broad vitrain bands.
Glanskool- en koolstofhoudende skalie lagies om die beurt, 50 % **steenkool**	2	8	—		**Coal,** bright, and carbonaceous shale, alternating bands, 50 % **coal.**
Glanskool, piriet- en kalsiethoudend met baie breë vitrietstrepe	2	9	195	2	**Coal,** bright, pyritic and calcitic, with numerous broad vitrain streaks.
Skalie met enkele **steenkoolstrepe.**	6	4	201	6	Shale with some bands of **coal.**
Steenkool.................		7	202	1	**Coal.**
Skalie, koolstofhoudend....	1	7	203	8	Shale, carbonaceous.
Steenkool.................		7	—		**Coal.**
Skalie, koolstofhoudend....		2	—		Shale, carbonaceous.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
Steenkool		3	204	8	**Coal.**
Steenkool- en skalielagies		9	205	6	**Coal** and shale bands.
Steenkool, glansend, met skaliestrepe, 50 % **steenkool**		11	206	5	**Coal,** bright, with shale streak 50 % **coal.**
Skalie, koolstofhoudend	1	6	—		Shale, carbonaceous.
Steenkool, oorwegend glansend en gestreep met kubiese breuk		9	—		**Coal,** mainly bright band with cubical fracture.
Skalie, koolstofhoudend met enkele lagies **glanskool**	1	2	—		Shale, carbonaceous, with son bright **coal** bands.
Glanskool en koolstofhoudende skalie gemeng, 50 % **steenkool**		10	210	8	**Coal,** bright, and carbonaceo shale bands mixed, 50 **coal.**
Skalie, koolstofhoudend	4	8	215	4	Shale, carbonaceous.
Steenkool, skalieagtig		6	215	10	**Coal,** shaly.
Skalie, koolstofhoudend en **glanskool** met piriet		7	—		Shale, carbonaceous, ar bright **coal** with pyrite.
Skalie		7	—		Shale.
Glanskool met enkele dun skaliestrepe	1	6	—		**Coal,** bright, with some sha streaks.
Skalie		3	—		Shale.
Glanskool, piriethoudend		6	—		**Coal,** bright, pyritic.
Skalie		6	—		Shale.
Glanskool met kubiese breuk		3	—		**Coal,** bright, with cubic fracture.
Skalie, koolstofhoudend		3	—		Shale, carbonaceous.
Glanskool met kubiese breuk		9	221	0	**Coal,** bright, with cubic fracture.
Skalie	1	10	—		Shale.
Steenkool		4	—		**Coal.**
Skalie		1	—		Shale.
Steenkool		2	—		**Coal.**
Skalie		6	223	11	Shale.
Glanskoollagies, 4″–8″ dik en koolstofhoudende skalielagies, 2″–4″ dik, 75 % **steenkool**	1	10	—		**Coal,** bright, 4″–8″ bands, an carbonaceous shale band 2″–4″ thick, 75 % **coal.**
Skalie		6	—		Shale.
Steenkool, gemeng	2	8	—		**Coal,** mixed.
Steenkool, gemeng, swak gehalte, met klei en piriet in middel	3	2	—		**Coal,** mixed, inferior qualit with clay and pyrite i centre.
Steenkool, gemeng en koolstofhoudende skalie	1	4	—		**Coal,** mixed, and carbonaceo shale.
Glanskool met kubiese breuk	1	0	—		**Coal,** bright, with cubic fracture.
Skalie, koolstofhoudend		4	—		Shale, carbonaceous.
Glanskool		3	—		**Coal,** bright.
Skalie, koolstofhoudend		3	—		Shale, carbonaceous.
Steenkool, gemeng en skalie		10	—		**Coal,** mixed and shale.
Skalie, koolstofhoudend		3	—		Shale, carbonaceous.
Steenkool, gemeng		11	—		**Coal,** mixed.
Skalie, koolstofhoudend		9	—		Shale, carbonaceous.
Steenkool, gemeng en skalie		11	—		**Coal,** mixed and shale.
Skalie	1	1	—		Shale.
Glanskool en skalie	1	10	242	9	**Coal,** bright, and shale.
Skalie		4	—		Shale.
Steenkool		4	—		**Coal.**
Skalie		3	—		Shale.
Steenkool		1	—		**Coal.**
Skalie	1	8	—		Shale.
Steenkool		8	—		**Coal.**

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
kalie		4	—		Shale.
teenkool		4	—		**Coal.**
kalie met **steenkoolstrepe.**	1	1	—		Shale with **coal** streaks.
teenkool		5	—		**Coal.**
kalie		11	249	2	Shale.
teenkool, gemeng, swak gehalte	1	1	—		**Coal,** mixed, inferior quality.
kalie, koolstofhoudend		3	—		Shale, carbonaceous.
lanskool		2	—		**Coal,** bright.
kalie, koolstofhoudende		3	—		Shale, carbonaceous.
teenkool		1	—		**Coal.**
kalie, koolstofhoudend		4	—		Shale, carbonaceous.
teenkool, gemeng en skalie		8	—		**Coal,** mixed, and shale.
kalie, koolstofhoudend		3	—		Shale, carbonaceous.
lanskool, oorwegend met 'n 4″ gemengde korrelrige lagie 6″ van onderaf. Bevat kalsiet	2	4	—		**Coal,** predominantly bright, with a 4″ band of mixed granular **coal** 6″ from the bottom. Contains much calcite.
kalie	1	5	—		Shale.
lanskool, piriethoudend met enkele dun skaliestrepies		9	—		**Coal,** bright, pyritic, with a few thin shale streaks.
kalie	1	2	—		Shale.
lanskool, piriethoudend	1	0	—		**Coal,** bright, pyritic.
kalie		6	—		Shale.
teenkool, gemeng, swak, gehalte. Bevat baie piriet	3	2	— —		**Coal,** mixed, inferior quality, containing much pyrite.
kalie, koolstofhoudend met breë **glanskool** strepe		7	—		Shale, carbonaceous, with broad streaks of bright **coal.**
kalie, koolstofhoudend		10	—		Shale, carbonaceous.
kalie, koolstofhoudend met breë **glanskoolstrepe**		11	—		Shale, carbonaceous, with broad streaks of bright **coal.**
teenkool, gemeng		4	—		**Coal,** mixed.
kalie, koolstofhoudend		2	264	7	Shale, carbonaceous.
kalie met **steenkoollagies**	3	9	268	4	Shale, with bands of **coal.**
kalie, sanderig	3	0	271	4	Shale, sandy.
kalie, koolstofhoudend	17	10	289	2	Shale, carbonaceous.
teenkool, glansende en dowwe met moddersteenklontjies	1	8	290	10	**Coal,** bright and dull portions, with mudstone clods.
kalie, koolstofhoudend met **steenkoolstrepies**	12	6	303	4	Shale, carbonaceous, with streaks of **coal.**
teenkool, dowwe en glansende dele	1	3	304	7	**Coal,** dull and bright portions.
kalie, koolstofhoudend met enkele **steenkoolstrepe**	12	10	316	7	Shale, carbonaceous, with a few bands of **coal.**
teenkool, dowwe en glansende dele met baie piriet	1	1	317	8	**Coal,** dull and bright portions with much pyrite.
kalie	2	5	320	1	Shale.
kalie, swartgrys, sanderig, mikahoudend	3	4	323	5	Shale, greyish black sandy micaceous.
kalie, koolstofhoudend	11	2	334	7	Shale, carbonaceous.
kalie, koolstof houdend met sanderige dele	3	7	—		Shale, carbonaceous with sandy parts.
kalie, sanderig	4	9	—		Shale, sandy.
andsteen, grys, skalieagtig met lagies grys sanderige skalie	8	9	351	8	Sandstone, grey shaly with bands of grey sandy shale.
andsteen, veldspaties, dofwit fyn- tot grofkorrelrig, kruisgelaagd in dele met lagies grys skalie en skalieagtige sandsteen	9	8	361	4	Sandstone, feldspathic greyish white fine-grained to coarse-grained, partly crossbedded, with bands of grey shale and shaly sandstone.

Bg. 25 (*Verv.*) B.H. 25 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Steenkool, dof.............	2	—	**Coal,** dull.
Skalie, grys, twee verkiesselde lagies vol piriet in onderste 12″	5 5	367 0	Shale, grey, two silicified bands full of pyrite in the bottom 12″.
Skalie, koolstofhoudend....	1 4	—	Shale, carbonaceous.
Steenkool, dowwe en glansende lagies, piriethoudend	9	369 0	**Coal,** dull and bright bands pyritic.
Skalie, koolstofhoudend, met tweel **glanskoollagies**	1 5	—	Shale, carbonaceous, with two bands of bright **coal.**
Sandsteen, dofwit, veldspaties grofkorrelrig in dele met grys skalielagies	10 0	380 5	Sandstone, greyish white feldspathic, coarse-grained partly with grey shale bands.
Skalie, donkergrys, sanderig hier en daar	4 9	385 2	Shale, dark grey, sandy in parts.

BOORGAT 25 : STERKWATER 411 : BOREHOLE 25.

Bg. 25 (*Verv.*) B.H. 25 (*Contd.*)

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
M 251	—	—	140 10	—
	Steenkool oorwegend baie glansend en gestreep, piriet- en kalsiethoudend pikagtig hier en daar	14	142 0	**Coal,** mainly very bright banded pyritic and calcitic, pitchlike in parts.
M 252	—	—	155 7	—
	Steenkool, glansend gestreep kalsiet- en pieiethoudend, wit vlek 3″ van bo	14	156 9	**Coal,** bright banded, pyritic and calcitic, white stain 3″ from top.
M 253	—	—	171 1	—
L	**Steenkool,** glansend en koolstofhoudende skalie dun lagies om die beurt 25 % **steenkool**	29	—	**Coal,** bright and shale, carbonaceous, alternating thin bands, 25 % **coal.**
	Skalie, **N.G.**..........	5	—	Shale, **N.S.**
K	**Steenkool,** glansend en koolstofhoudende skalie dun lagies om die beurt onderste 2″ wit gevlek	12	—	**Coal,** bright and carbonaceous shale, alternating thin bands, bottom 2″ white stained.
	Skalie, koolstofhoudend, **N.G.**	15	—	Shale, carbonaceous, **N.S.**

BOORGAT 25 : STERKWATER 411 : BOREHOLE 25.

No. van monster B.-N.-I. F.R.I. mple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
J	**Steenkool,** glansend en koolstofhoudende skalie, dun lagies om die beurt, 75% **steenkool**	22	—	**Coal,** bright, and carbonaceous shale, alternating thin bands, 75 % **coal.**
	Skalie, koolstofhoudend, **N.G.**	6	—	Shale, carbonaceous, **N.S.**
H	**Steenkool**, glansend en koolstofhoudende skalie dun lagies om die beurt 50 % **steenkool** met wit vlekke	22	—	**Coal,** bright, and carbonaceous shale, alternating thin bands, 50 % **coal,** with white stains.
	Skalie, koolstofhoudend, **N.G.**	13	—	Shale, carbonaceous, **N.S.**
G	**Steenkool,** dof........	10	—	**Coal,** dull.
F	Skalie, koolstofhoudend met dun lagies **glanskool,** talryke glyvlakke, 25 % **steenkool**	35	—	Shale, carbonaceous, with thin bands of bright **coal,** numerous slickensides, 25 % **coal.**
E	**Steenkool,** glansend, kubiese breuk, met skalielagies, 75 % **steenkool**	15	—	**Coal,** bright, cubical fracture, with shale bands, 75 % **coal.**
	Skalie, koolstofhoudend, **N.G.**	4	—	Shale, carbonaceous, **N.S.**
D	**Steenkool,** glansend, kubiese breuk, met skalielagies 50 % **steenkool**	25	—	**Coal,** bright, cubical fracture, with shale bands, 50 % **coal.**
C	**Steenkool,** glansend, lig, gestreep met enkele skaliestrepe en baie breë vitrietstrepe	11	—	**Coal,** bright, light, banded with few shale streaks and a few very broad vitrain streaks.
B	**Steenkool,** glansend, met lagies koolstofhoudende skalie om die beurt, kalsiethoudend 50 % **steenkool** 3″ skalie in middel uitgesluit	32	—	**Coal,** bright, alternating with carbonaceous shale bands, calcitic, 50 % **coal** 3″ shale in centre excluded.
A	**Steenkool,** baie glansend, piriet- en kalsiethoudend met baie breë vitrietstrepe	33	195 2	**Coal,** very bright, pyritic and calcitic, with broad vitrain streaks.
254	—	—	205 6	—
C	**Steenkool,** glansend en skalielagies, 50 % **steenkool**	11	—	**Coal,** bright, and shale bands, 50 % **coal.**
	Skalie, koolstofhoudend, **N.G.**	18	—	Shale, carbonaceous, **N.S.**
B	**Steenkool,** oorwegend glansend, gestreep, met kubiese breuk	9	—	**Coal,** mainly bright banded, with cubical fracture.
	Skalie, koolstofhoudend, met enkele **glanskoolstrepe, N.G.**	14	—	Shale, carbonaceous, with few streaks of bright **coal, N.S.**
A	**Steenkool,** glansend, en koolstofhoudende skalie, 50 % **steenkool**	10	210 8	**Coal,** bright, and carbonaceous shale, 50 % **coal.**

Bg. 25 (*Verv.*) B.H. 25 (*Contd.*)

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
M 255	—	—	215 10	—
	Skalie, koolstofhoudend, **glanskool** en piriet, **N.G.**	7	—	Shale, carbonaceou bright coal and pyrit **N S.**
	Skalie, **N.G.**..........	7	—	Shale, **N.S.**
D	**Steenkool,** baie glansend met enkele dun skaliestrepe en witspikkels in dele	18	—	**Coal,** very bright wi few thin shale strea and white stains parts.
	Skalie, **N.G.**..........	3	—	Shale, **N.S.**
C	**Glanskool,** piriethoudend	6	—	**Coal**, bright, pyritic.
	Skalie, **N.G.**..........	6	—	Shale, **N.S.**
B	**Steenkool,** glansend met kubiese breuk	3	—	**Coal,** bright with cubic fracture.
	Skalie, koolstofhoudend, **N.G.**	3	—	Shale, carbonaceoı **N.S.**
A	**Steenkool,** glansend met kubiese breuk	9	221 0	**Coal,** bright, wi cubical fracture.
M 256	—	—	223 11	—
K	**Steenkool,** glansend gemeng, met koolstofhoudende skalie 4″–8″ lagies, 2″–4″ koolstofhoudende skalielagies om die beurt, 75 % **steenkool**	22	—	**Coal,** bright mixed, wi carbonaceous sha and carbonaceo shale, alternati bands. Shale 2″- bands and **coal** 4″- bands, 75 % **coal.**
	Skalie...............	6	—	Shale.
J.	**Steenkool,** gemeng....	32	—	**Coal,** mixed.
H	**Steenkool,** gemeng, swak gehalte met modder en piriet in middel	38	—	**Coal,** mixed, inferi with mud and pyı in centre.
G	**Steenkool,** gemeng, en koolstofhoudende skalie	16	—	**Coal,** mixed and car naceous shale.
F	**Steenkool,** glansend met kubiese breuk	12	—	**Coal,** bright w cubical fracture.
	Skalie, koolstofhoudend, **N.G.**	4	—	Shale, carbonaceo **N.S.**
E	**Steenkool,** baie glansend	3	—	**Coal,** very bright.
	Skalie, koolstofhoudend, **N.G.**	3	—	Shale, carbonaceo **N.S.**
D	**Steenkool,** gemeng en skalie	10	—	**Coal,** mixed and sha
	Skalie, koolstofhoudend, **N.G.**	3	—	Shale, carbonace **N.S.**
C	**Steenkool,** gemeng....	11	—	**Coal,** mixed.
	Skalie, koolstofhoudend, **N.G.**	9	—	Shale, carbonace **N.S.**
B	**Steenkool,** glansend en skalie	11	—	**Coal,** bright, and sh
	Skalie, **N.G.**..........	13	—	Shale, **N.S.**
A	**Steenkool,** glansend, en skalie; 2 × 3″ koolstofhoudende skalie uitgesluit	22	242 9	**Coal,** bright, and sha 2″ × 3″ carbonace shale bands excluc

Bg. 25 (*Verv.*) B.H. 25 (*Contd.*)

No. van monster B.-N.-I. F.R.I. imple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
257	—	—	249 2	—
	Steenkool, gemeng, swakgehalte	13	—	**Coal,** mixed, inferior.
	Skalie, koolstofhoudend, **N.G.**	3	—	Shale, carbonaceous, **N.S.**
	Glanskool............	2	—	**Coal,** bright.
	Skalie, koolstofhoudend, **N.G.**	3	—	Shale, carbonaceous, **N.S.**
F	**Steenkool, N.G.**........	1	—	**Coal, N.S.**
	Skalie, koolstofhoudend, **N.G.**	4	—	Shale, carbonaceous, **N.S.**
	Steenkool, gemeng, en skalie	8	—	**Coal,** mixed, and shale.
	Skalie, koolstofhoudend, **N.G.**	3	—	Shale, carbonaceous, **N.S.**
E	**Steenkool,** oorwegend baie glansend met 4″ gemengde korrelrige lagie 6″ van onder en baie kalsiet	28	—	**Coal,** mainly very bright with 4″ mixed granular 6″ from bottom and much calcite.
	Skalie, **N.G.**..........	17	—	Shale, **N.S.**
D	**Steenkool,** baie glansend, piriethoudend, enkele dun skalielagies	9	—	**Coal,** very bright, pyritic, few thin shale bands.
	Skalie, **N.G.**..........	14	—	Shale, **N.S.**
C	**Steenkool,** baie glansend, piriethoudend	12	—	**Coal,** very bright, pyritic.
	Skalie, **N.G.**..........	6	—	Shale, **N.S.**
B	**Steenkool,** gemeng, swakgehalte, piriethoudend	38	—	**Coal,** mixed, inferior, very pyritic.
	Skalie, koolstofhoudend met breë **glanskoolstrepe, N.G.**	7	—	Shale, carbonaceous, with broad bright **coal** streaks, **N.S.**
	Skalie, koolstofhoudend, **N.G.**	10	—	Shale, carbonaceous, **N.S.**
	Skalie, koolstofhoudend met breë **glanskoolstrepe, N.G.**	11	—	Shale, carbonaceous, with broad streaks of bright **coal, N.S.**
	Steenkool, gemeng....	4	—	**Coal,** mixed.
	Skalie, koolstofhoudend	2	264 7	Shale, carbonaceous.

BOORGAT 25 : STERKWATER 411 : BOREHOLE 25.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persen- Percentasie as. tage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
M 251	14	—	3·3	30·6	29·8	36·3	22·5	7·7	58·1	13·1	1	1f
M 252	14	11·3	3·6	18·2	34·8	43·4	60·6	8·1	86·7	13·6	2	1
M 253 L	29	—	3·1	39·7	24·1	33·1	13·0	7·3	35·0	12·0	1	1
K	12	—	3·0	43·9	24·3	28·8	—	—	—	—	—	—
J	22	—	3·5	27·1	29·3	40·1	27·6	7·2	67·2	14·6	2	1
H	22	—	3·4	28·1	28·9	39·6	30·1	7·2	60·3	10·9	1½	1½
G	10	—	3·1	30·7	30·1	36·1	25·5	9·7	59·8	15·9	2½	2
F	35	—	3·1	41·3	24·0	31·6	17·7	7·4	23·5	12·5	1	1
E	15	—	3·6	22·8	30·4	43·2	54·8	7·9	72·5	12·5	1	1
D	25	—	3·4	35·8	25·5	35·3	15·7	6·9	49·0	11·8	1½	1
C	11	11·8	4·2	15·0	32·9	47·9	70·2	6·0	83·6	9·0	2	1
B	29	—	3·3	32·2	28·1	36·4	27·6	6·9	55·0	13·9	2½	1
A	33	11·8	3·6	16·4	34·3	45·7	68·7	7·3	83·2	10·4	2	1½
M 254 C	11	—	3·1	32·6	28·1	36·2	28·9	7·8	55·2	14·0	1½	1f
B	9	—	3·2	30·7	28·2	37·9	31·7	9·3	59·0	17·8	1½	1f
A	10	—	3·2	33·2	27·0	36·6	18·7	8·5	48·4	15·3	1½	1½
M 255 D	18	11·5	3·3	16·3	34·1	31·1	66·6	6·3	83·0	9·2	1f	—
C	6	—	3·0	24·2	29·9	42·9	43·7	7·2	67·0	11·9	1f	—
B	3	—	3·2	20·2	30·8	35·8	56·1	7·3	87·1	16·0	1f	—
A	9	—	3·0	24·2	30·2	42·6	33·7	7·2	35·6	11·2	1f	—

BOORGAT 25 : STERKWATER 411 : BOREHOLE 25.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persen tasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
M 256 K	22	—	2·7	33·8	26·5	37·0	30·1	7·4	51·5	12·1	1f	1f
J	32	—	2·6	27·2	30·5	39·7	23·6	7·4	61·4	12·5	2½	2
H	38	—	2·4	30·7	29·2	37·7	22·1	7·0	51·7	12·5	2½	2
G	16	—	2·4	43·7	22·1	31·8	—	—	—	—	—	—
F	12	11·1	3·0	19·9	33·4	43·7	59·9	7·2	76·4	10·7	2½	1½
E	3	—	2·8	29·0	28·8	39·4	40·4	8·1	60·2	±13·9	1	1f
D	10	—	2·5	33·5	27·0	37·0	19·3	7·5	44·4	12·5	1f	—
C	11	—	2·8	22·9	31·6	42·7	46·6	7·9	67·2	11·8	1½	1f
B	11	—	2·8	29·1	29·1	39·0	46·0	8·0	61·4	12·7	2	1f
A	16	—	2·8	30·7	27·1	39·4	19·2	8·1	39·3	11·4	2	1f
M 257 F	23	—	2·9	23·8	29·4	43·9	43·5	6·0	66·5	10·9	1½	1f
E	28	—	2·7	23·2	36·4	37·7	45·5	6·3	50·5	9·2	2½	2
D	9	12·4	3·3	11·4	33·2	52·1	76·2	5·6	90·6	8·2	1½	1
C	12	11·7	3·0	17·4	33·8	45·8	45·1	7·3	80·4	± 9·8	1	1f
B	38	—	2·4	32·5	26·9	38·2	21·7	6·6	48·3	± 11·5	1	1f
A	4	—	2·3	33·2	30·4	34·1	22·3	8·6	51·0	± 13·6	1	1f

BOORGAT 26 : SHEFFIELD 1082 : BOREHOLE 26.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	Dm. In.	Vt. Ft.	Dm. In.	
Grond	5	6	—		Soil.
Ouklip	2	6	8	0	Ouklip.
Sand, fyn wit (stamperboor gebruik)	35	2	43	2	Sand, fine white (percussion drill used).
Sandsteen, fynkorrelrig ligrooi	8	10	52	0	Sandstone, fine-grained pink.
Sandsteen, baie fynkorrelrig ligrooi en wit effens kleiïg	24	0	76	0	Sandstone, very fine-grained pink and white, slightly argillaceous
Sandsteen, fynkorrelrig wit en ligrooi met verkieselde dele en kalkhoudende knolle	4	0	80	0	Sandstone, fine-grained white and pink with silicified parts and calcareous nodules.
Sandsteen, baie fynkorrelrig kleiïg pers met wit en groenwit vlekke	22	0	102	0	Sandstone, very fine-grained argillaceous purple mottled with white and greenish white.
Sliksteen met baie wit kalkhoudende knolle, bruinpers en wit tot 115 ft.; en daaronder rooibruin	25	0	127	0	Siltstone with numerous calcareous nodules, brownish purple and white down to 115 ft.; and reddish brown further down.
Moddersteen, sanderig, rooi met ligter en donkerder dele, enkele pers dele, vol wit kalkhoudende dele en knolle wat minder word na onder	30	6	157	6	Mudstone, sandy, red with lighter and darker portions, some purple parts, full of white calcareous parts and nodules that decrease in numbers towards bottom.
Sliksteen, lig bruinrooi met groenwit kalkhoudende knolletjies	9	6	167	0	Siltstone, light brownish red with small greenish white calcareous nodules.
Sliksteen, lig bruinrooi met groetwit kalkhoudende knolletjies en bruinrooi modderklontjies	24	10	191	10	Siltstone, light brownish red with greenish white calcareous nodules and brownish red mud-pellets.
Sliksteen, bruinrooi met ligter en donderder dele en groenwit kalkhoudende knolletjies	28	5	220	3	Siltstone, brownish red with lighter and darker portions and greenish white calcareous nodules.
Sandsteen, ligrooi kleiïg baie fynkorrelrig	4	9	225	0	Sandstone, pink argillaceous fine-grained.
Sliksteen, bruinrooi met enkele wit kalkhoudende knolletjies	16	9	241	9	Siltstone, brownish red with some white calcareous nodules.
Sliksteen, donkerrooi bo; en onder heelwat wit kalkhoudende dele	36	6	278	3	Siltstone, dark red upper part; and lower down numerous white calcareous nodules.
Moddersteen, donkerrooi, effens sanderig kalkhoudend	6	0	284	3	Mudstone, dark red, slightly sandy calcareous.
Moddersteen, donkerrooi, sanderig met heelwat groenwit kalkhoudende dele	7	9	292	0	Mudstone, dark red, sandy with numerous greenish white calcareous portions.
Sliksteen, donkerrooi, dele baie gevlek met wit	9	10	301	10	Siltstone, dark red, parts mottled with white.
Sliksteen, donkerrooi met plek-plek baie kalkhoudende knolle en plek-plek min; vol nate hier en daar	32	6	334	4	Siltstone, dark red, with numerous calcareous nodules in parts, and less in others, full of joints in places.

Aard van lae.	Dikte verkry. Thickness Recovered. *Vt. Ft.*	*Dm. In.*	Ware diepte. True Depth. *Vt. Ft.*	*Dm. In.*	Nature of Strata.
Moddersteen, persbruin....	6	9	341	1	Mudstone, purplish brown.
Moddersteen, donkerbruin met enkele kwartskorreltjies	19	2	360	3	Mudstone, dark brown, with some small quartz grains.
Sandsteen, fynkorrelrig rooi met enkele moddersteenlagies	3	5	363	8	Sandstone, fine-grained red, with a few thin mudstone bands.
Sandsteen, fynkorrelrig kwartsities, wit en ligbruin	4	1	367	9	Sandstone, fine-grained quartzitic, white and light brown.
Sandsteen, fynkorrelrig wit kwartsities	1	1	368	10	Sandstone, fine-grained white quartzitic.
Sandsteen, grofkorrelrig persagtig	1	6	370	4	Sandstone, coarse-grained purplish.
Sandsteen, persagtig fyn- tot grofkorrelrig	3	5	373	9	Sandstone, purplish, fine to coarse-grained.
Sandsteen, middelkorrelrig .	2	0	375	9	Sandstone, medium-grained.
Sandsteen, grofkorrelrig, bruin en wit om die beurt, kruisgelaagd	5	10	381	7	Sandstone, coarse-grained, varying from brown to white, crossbedded.
Moddersteen, pers en bruin		3	—		Mudstone, purple and brown.
Sandsteen, grofkorrelrig, wit	10	6	392	4	Sandstone, coarse-grained, white.
Sandsteen, grofkorrelrig, wit en bruin gestreep, kruisgelaagd, met enkele kwartspoelklippies van ½" deursnee en grinterrige dele	14	0	406	4	Sandstone, coarse-grained, banded white and brown, crossbedded, with some quartz pebbles ½" in diameter and gritty parts.
Moddersteen, rooibruin.....	2	0	408	4	Mudstone, reddish brown.
Sandsteen, wit, baie grofkorrelrig, grinterig hier en daar	13	5	421	9	Sandstone, white very coarse-grained, gritty in places.
Moddersteen, rooibruin.....	2	2	423	11	Mudstone, reddish brown.
Sandsteen, grofkorrelrig bruin		9	424	8	Sandstone, coarse-grained brown.
Moddersteen, rooibruin.....	3	11	428	7	Mudstone, reddish brown.
Moddersteen, pers.........	12	6	441	1	Mudstone, purple.
Moddersteen, grys.........	93	5	534	6	Mudstone, grey.
Moddersteen, vaalblou.....	32	9	567	3	Mudstone, greyish blue.
Skalie, grysswart, piriethoudend	4	3	571	6	Shale, greyish black, pyritic.
Steenkool en skalie........		4	571	10	**Coal** and shale.
Skalie, swart en grysswart.	13	0	584	10	Shale, black and greyish black.
Steenkool en skalie........		6	585	4	**Coal** and shale.
Skalie....................		4	585	8	Shale.
Glanskool met skaliebande.		8	586	4	**Coal,** bright with shale bands.
Skalie....................		5	586	9	Shale.
Steenkool met skaliestrepe, min piriet		6	587	3	**Coal** with shale streaks containing little pyrite.
Skalie, swart..............	3	6	590	9	Shale, black.
Steenkool en skalie, piriethoudend		5	591	2	**Coal** and shale, pyritic.
Skalie met 2" **steenkool** in middel	1	10	593	0	Shale with 2" of **coal** in centre.
Steenkool en skalie; 50 % skalie	6	7	599	7	**Coal** and shale; 50 % shale.
Skalie met enkele strepe **glanskool**		10	—		Shale with streaks of bright **coal.**
Glanskool met skaliestrepies	1	5	601	10	**Coal,** bright, with shale streaks.
Steenkool en skalie........	3	0	604	11	**Coal** and shale.
Glanskool met skaliestrepies	1	1	606	1	**Coal,** bright, with shale streaks.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie		5	606	6	Shale.
Skalie en **steenkool**		3	—		Shale and **coal.**
Glanskool met skalie strepies		10	—		**Coal,** bright, with shal streaks.
Skalie		7	—		Shale.
Glanskool met skaliestrepies		4	—		**Coal,** bright, with shal streaks.
Glanskool en skalie, piriethoudend; 75 % skalie	2	10	—		**Coal,** bright, and shale pyritic; 75 % shale.
Skalie		4	—		Shale.
Glanskool en skalie; 60% skalie	1	1	—		**Coal,** bright, and shale; 60 % shale.
Skalie met enkele strepies **glanskool**		5	—		Shale with some streaks c bright **coal.**
Glanskool en skalie; 25 % skalie	2	3	—		**Coal,** bright, and shale; 25 % shale.
Skalie met min **glanskool**	1	0			Shale with little bright **coal.**
Glanskool, kalsiethoudend, met skaliestrepe	1	3	—		**Coal,** bright, calcitic, wit shale streaks.
Skalie		3	—		Shale.
Skalie en **steenkool**		9	—		Shale and **coal.**
Glanskool met skaliestrepies	2	8	621	8	**Coal,** bright with shal streaks.
Skalie		11	—		Shale.
Glanskool		6	—		**Coal,** bright.
Skalie	1	11	625	0	Shale.
Glanskool en skalie; 25 % skalie	1	1	626	1	**Coal,** bright, and shale; 25 % shale.
Skalie	3	4	—		Shale.
Steenkool		3	—		**Coal.**
Skalie		5	—		Shale.
Steelnkool		5	—		**Coal.**
Skanie	2	2	632	8	Shale.
Glanskool en skalie; 10 % skalie		8	633	4	**Coal,** bright, and shale; 10 % shale.
Skalie		7	—		Shale.
Steenkool		4	—		**Coal.**
Skalie		9	635	1	Shale.
Glanskool en skalie; 20 % skalie	1	9	636	10	**Coal,** bright, and shale; 20 % shale.
Skalie		3	637	1	Shale.
Glanskool en skalie; 20 % skalie	1	6	—		**Coal,** bright, and shale; 20 % shale.
Skalie	5	6	644	1	Shale.
Steenkool		7	644	8	**Coal.**
Skalie	1	0	645	8	Shale.
Glanskool en skalie, kalsiethoudend; 30 % skalie		9	646	5	**Coal,** bright, and shale, ca citic; 30 % shale.
Skalie met lagies **steenkool**	5	11	—		Shale with bands of **coal.**
Glanskool		2	652	6	**Coal,** bright.
Skalie	3	11	656	5	Shale.
Glanskool en skalie; 60 % skalie	2	5	—		**Coal,** bright, and shale; 60 % shale.
Skalie met min **glanskool**		9	—		Shale with a little bright **coa**
Glanskool en skalie; 60 % skalie	2	0	661	7	**Coal,** bright, and shale; 60 % shale.
Skalie		5	662	0	Shale.
Skalie met min **glanskool**		10	—		Shale with a little bright **coa**
Glanskool met min skalie	1	0	663	10	**Coal,** bright, with a little shal
Skalie		5	664	3	Shale.
Glanskool en skalie		2	—		**Coal,** bright, and shale.
Skalie		5	—		Shale.

Bg. 26 (*Verv.*) B.H. 26 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
lanskool en skalie ; 30 % skalie		7	—		**Coal,** bright, and shale ; 30 % shale.
kalie		4	—		Shale.
lanskool en skalie ; 20 % skalie		9	—		**Coal,** bright, and shale ; 20 % shale.
kalie		3	—		Shale.
anskool en skalie ; 25 % skalie	1	0	—		**Coal,** bright, and shale ; 25 % shale.
alie		4	—		Shale.
anskool en skalie ; 80 % skalie		5	—		**Coal,** bright, and shale ; 80 % shale.
alie en **glanskool**	1	1	—		Shale and bright **coal.**
eenkool, gemengde en skalierige met wasagtige glans hier en daar, baie glyvlakke	1	8	672	7	**Coal,** mixed and shaly with waxlike lustre in places, numerous slickensides.
alie	1	7	—		Shale.
eenkool		6	—		**Coal.**
alie met **steenkoolstrepe**	4	0	678	8	Shale with streaks of **coal.**
alie		2	—		Shale.
anskool en skalie ; 40 % kalie		5	—		**Coal,** bright, and shale ; 40 % shale.
nskool en skalie		5	—		**Coal,** bright and shale.
nskool en skalie, kalsiethoudend 40 % skalie		6	—		**Coal,** bright, and shale, calcitic ; 40 % shale.
alie		4	—		Shale.
nskool en skalie ; 15 % skalie	1	4	—		**Coal,** bright, and shale ; 15 % shale.
lie, sanderig		2	—		Shale, sandy.
nskool en skalie, pirietoudend ; 20 % skalie		10	682	10	**Coal,** bright, and shale, 20 % shale pyritic.
alie	4	3	—		Shale.
enkool en skalie, **steenkool** oorwegend		7	—		**Coal** and shale, **coal** predominating.
enkool en skalie	1	9	—		**Coal** and shale.
lie		9	—		Shale.
enkool en skalie		6	—		**Coal** and shale.
alie		5	691	1	Shale.
nskool en skalie ; 20 % kalie		4	—		**Coal,** bright, and shale ; 20 % shale.
lie		4	—		Shale.
nskool en skalie		3	—		**Coal,** bright, and shale.
lie		3	—		Shale.
nskool en skalie ; pirietoudend ; 10 % skalie	1	5	693	8	**Coal,** bright, and shale, pyritic ; 10 % shale.
lie	1	2	694	10	Shale.
nskool en skalie		5	—		**Coal,** bright, and shale.
lie		3	—		Shale.
nskool en skalie, met baie iriet		4	695	11	**Coal,** bright, and shale, containing much pyrite.
lie	1	8	697	7	Shale.
nskool met skaliestrepe		5	698	0	**Coal,** bright, with shale streaks.
lie		9	698	9	Shale.
lie, sanderig met skaliegies	3	3	—		Shale, sandy with shale bands.
lie met 4½″ sanderige kalie in die middel	6	5½	708	6	Shale with 4½″ sandy shale in the centre.
nkool		11	709	5	**Coal.**
lie met enkele dun **steenoollagies**	5	2	—		Shale with some thin **coal** bands.
nkool		10	715	5	**Coal.**

Bg. 26 (*Verv.*) B.H. 26 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Skalie met **steenkoollagies**..	3 3	—	Shale with **coal** bands.
Skalie, sanderig met enkele **steenkoolstrepe**	4 4	723 0	Shale, sandy with some **coa** streaks.
Skalie, sanderig met enkele **steenkoolstrepe**	1 10	—	Shale, sandy, with some **coa** streaks.
Skalie, grys tot grysswart..	7 8	732 6	Shale, grey to greyish black.

BOORGAT 26 : SHEFFIELD 1082 : BOREHOLE 26.

Bg. 26 (*Verv.*) B.H. 26 (*Contd.*)

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
M 379	—	—	599 7	—
	Skalie met enkele **glanskoolstrepe, N.G.**	10	—	Shale with occasiona streaks of bright **coa** **N.S.**
	Glanskool met skaliestrepe	17	601 10	**Coal,** bright with sha streaks.
M 380	—	—	604 11	—
	Glanskool met skaliestrepe	13	606 1	**Coal,** bright with sha streaks.
M 381	—	—	606 6	—
	Skalie en **steenkool, N.G.**	3	—	Shale and **coal, N.S.**
G	**Glanskool** met skaliestrepe	10	—	**Coal,** bright, with sha streaks.
	Skalie, **N.G.**..........	7	—	Shale, **N.S.**
F	**Glanskool** met skaliestrepe	4	—	**Coal,** bright, with sha streaks.
	Skalie, **N.G.**..........	4	—	Shale, **N.S.**
E	**Glanskool** en skalie, piriethoudend; 75 % skalie	34	—	**Coal,** bright, and sha pyritic; 75 % sha
	Skalie, **N.G.**..........	4	—	Shale, **N.S.**
D	**Glanskool** en skalie; 60 % Skalie	13	—	**Coal,** bright, and shal 60 % shale.
	Skalie met enkele **glanskoolstrepe, N.G.**	5	—	Shale with occasior streaks of bright **co** **N.S.**
C	**Glanskool** en skalie 25 % skalie. 2″ skalie uitgesluit	27	—	**Coal,** bright, and shal 25 % shale. 2″ shale excluded.
	Skalie met min **glanskool, N.G.**	12	—	Shale with a little brig **coal, N.S.**

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
B	**Glanskool** met skaliestrepe, kalsiethoudend	15	—	**Coal,** bright with shale streaks, calcitic.
	Skalie, **N.G.**...........	3	—	Shale, **N.S.**
	Skalie en **steenkool, N.G.**	9	—	Shale and **coal, N.S.**
A	**Glanskool** met skaliestrepe	32	621 8	**Coal,** bright with shale streaks.
M 382	—	—	625 0	—
D	**Glanskool** en skalie; 25 % skalie	13	626 1	**Coal,** bright, and shale; 25 % shale.
	—	—	632 8	—
C	**Glanskool** en skalie; 10 % skalie	8	633 4	**Coal,** bright, and shale; 10 % shale.
B	**Glanskool** en skalie; 20 % skalie	—	635 1	**Coal,** bright, and shale; 20 % shale.
	2″ skalie 3″ van bo uitgesluit	21	636 10	2″ shale 3″ from top excluded.
A	**Glanskool** en skalie; 20 % skalie	18	637 1	**Coal,** bright, and shale; 20 % shale.
	Skalie, **N.G.**...........	3	638 10	Shale, **N.S.**
M 383	—	—	645 8	—
	Glanskool en skalie, kalsiethoudend; 30 % skalie	9	646 5	**Coal,** bright, and shale, calcitic; 30 % shale.
M 384	—	—	656 5	—
G	**Glanskool** en skalie: 60 % skalie	29	—	**Coal,** bright, and shale: 60 % shale.
	Skalie met min **glanskool, N.G.**	9	—	Shale with a little bright **coal, N.S.**
F	**Glanskool** en skalie met 2″ skalie in middel uitgesluit; 60 % skalie	24	661 7	**Coal,** bright, and shale with 2″ of shale in centre excluded; 60 % shale.
	—	—	662 0	—
	Skalie met min **glanskool, N.G.**	10	—	Shale with very little bright **coal, N.S.**
E	**Glanskool** met baie min skalie	12	663 10	**Coal,** bright, with very little shale.
	—	—	664 3	—
	Glanskool en skalie, **N.G.**	2	—	**Coal,** bright, and shale, **N.S.**
	Skalie................	5	—	Shale.
D	**Glanskool** en skalie; 30 % skalie	7	—	**Coal,** bright, and shale; 30 % shale.
	Skalie, **N.G.**...........	4	—	Shale, **N.S.**
C	**Glanskool** en skalie; 20 % skalie	9	—	**Coal,** bright, and shale; 20 % shale.
	Skalie, **N.G.**...........	3	—	Shale, **N.S.**
B	**Glanskool** en skalie; 25 % skalie	12	—	**Coal,** bright, and shale; 25% shale.
	Skalie, **N.G.**...........	4	—	Shale, **N.S.**
	Glanskool en skalie; 80 % skalie, **N.G.**	5	—	**Coal,** bright, and shale; 80% shale, **N.S.**
	Skalie en **glanskool, N.G.**	13	—	Shale and bright **coal, N.S.**

No. van monster B.-N.-I. F.R.I. Sample No.		Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
			Dm. *In.*	*Vt. Dm.* *Ft. In.*	
	A	**Steenkool**, gemengde en skalierige met wasagtige glans hier en daar, baie vryfspieëls	20	672 7	**Coal,** mixed and shaly with waxlike lustre in parts, numerous slickensides.
		—	—	678 8	—
M 385		Skalie, **N.G.**..........	2	—	Shale, **N.S.**
	D	**Glanskool** en skalie; 40 % skalie. ½″ piriet in middel uitgesluit	5	—	**Coal,** bright, and shale; 40 % shale. ½″ pyrite in centre excluded.
		Glanskool en skalie, **N.G.**	5	—	**Coal,** bright, and shale, **N.S.**
	C	**Glanskool** en skalie, kalsiethoudend 40 % skalie	6	—	**Coal,** bright, and shale, calcitic; 40 % shale.
		Skalie, **N.G.**..........	4	—	Shale, **N.S.**
	B	**Glanskool** en skalie; 15 % skalie	16	—	**Coal,** bright, and shale; 15 % shale.
		Skalie, sanderig piriethoudend, **N.G.**	2	—	Shale, sandy pyritic, **N.S.**
	A	**Glanskool** en skalie, piriethoudend; 20% skalie, ½″ skalie in middel uitgesluit	10	682 10	**Coal,** bright, and shale, pyritic; 20 % shale, ½″ shale in centre excluded.
M 386		—	—	691 1	—
	E	**Glanskool** en skalie; 20 % skalie	4	—	**Coal,** bright, and shale; 20 % shale.
		Skalie, **N.G.**..........	4		Shale, **N.S.**
	D	**Glanskool** met skaliestrepe	3	...	**Coal,** bright, with shale bands.
		Skalie, **N.G.**..........	3		Shale, **N.S.**
	C	**Glanskool** en skalie, piriethoudend; 10 % skalie	17		**Coal,** bright, and shale pyritic; 10 % shale
		Skalie, **N.G.**..........	1	693 9	Shale, **N.S.**
		—	-	694 10	—
	B	Skalie, **N.G.**..........	½	...	Shale, **N.S.**
		Glanskool..........	4½		**Coal,** bright.
		Skalie, **N.G.**..........	3		Shale, **N.S.**
		Glanskool met skaliestrepe, piriethoudend	4	695 11	**Coal,** bright, with shale streaks, pyritic.
		—		697 7	—
	A	**Glanskool** met skaliestrepe	5	698 0	**Coal,** bright, with shale streaks.

KORTANALISES—PROXIMATE ANALYSES.

Nommer. van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No. Fl. 1·6.
M 379	17	—	2·7	27·8	31·8	37·7	40·9	6·4	61·6	11·6	3½	3½
M 380	13	—	3·0	26·6	30·5	39·9	43·9	8·1	65·8	13·4	2½	2
M 381 G	10	—	3·0	22·8	30·7	43·5	54·3	6·5	69·4	10·7	3½	2
F	4	—	2·8	25·0	31·0	41·2	46·7	7·5	68·1	13·8	3½	2
E	34	—	2·5	39·5	25·9	32·1	22·6	7·2	41·1	13·2	3½	3
D	13	—	2·6	34·8	26·7	35·9	30·4	7·7	50·6	13·8	2½	2
C	25	—	2·9	25·3	30·3	41·5	45·9	6·4	66·1	11·7	2½	2½
B	15	10·7	3·2	20·6	31·7	44·5	56·8	6·0	72·1	9·4	2½	2½
A	32	11·5	3·1	17·8	33·4	45·7	69·1	7·6	82·4	10·6	3½	2½
M 382 D	13	11·0	3·0	20·1	31·9	44·4	61·2	7·1	77·3	10·9	3	3
C	8	10·8	2·8	21·9	32·8	42·5	56·8	8·3	75·7	12·1	4	3½
B	19	10·9	2·8	21·6	30·8	44·8	52·0	7·1	76·3	13·4	3½	2½
A	18	11·1	2·8	19·7	32·6	44·0	64·6	8·2	78·8	11·2	5	3½
M 383	9	—	2·8	22·7	31·8	42·7	54·0	7·5	71·5	11·2	3½	3
M 384 G	29	—	2·5	27·6	30·8	39·1	38·7	8·3	63·7	14·5	3½	3
F	22	—	2·5	29·8	29·2	38·5	39·4	6·3	56·7	12·1	2½	2½
E	12	11·9	3·1	14·0	34·2	48·7	75·7	6·7	86·0	9·0	3	2½
D	7	—	2·8	30·5	27·2	39·5	41·3	6·7	54·7	10·7	2	2
C	9	—	2·9	20·6	32·3	44·3	56·5	6·9	74·9	11·1	3	2½
B	12	—	2·6	31·9	27·3	38·2	39·7	8·3	56·0	13·3	2½	2½
A	20	—	2·5	37·7	24·2	45·6	33·3	8·6	48·4	13·2	2	1
M 385 D	4½	10·9	3·0	19·5	32·8	44·7	59·6	6·4	75·9	10·0	3½	3
C	6	—	1·8	30·7	27·8	39·7	32·2	7·1	58·9	13·7	2½	1½
B	16	11·3	3·2	18·2	33·2	45·4	58·8	5·5	78·7	8·9	4	3
A	9½	—	3·0	25·5	33·7	37·8	50·9	5·5	62·7	9·1	3½	2½
M 386 E	4	—	2·4	30·2	28·6	38·8	36·3	7·1	55·6	12·7	2	2
D	13	—	2·7	25·6	31·4	40·3	45·0	8·6	66·8	13·6	1½	1
C	17	—	2·7	26·5	31·2	39·6	50·3	5·5	60·3	8·9	2½	2
B	8½	—	3·0	25·9	30·5	40·6	49·3	5·1	60·6	7·2	3	2
A	5	—	2·7	27·9	33·6	35·8	47·9	6·1	61·2	9·7	2	1

BOORGAT 27 : WELLINGTON 606 : BOREHOLE 27.

Kern $\frac{7}{8}$ dm. Core $\frac{7}{8}$ in.

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Sand....................	14 0	14 0	Sand.
Sandsteen, verweer........	48 0	62 0	Sandstone, weathered.
Sandsteen, wit, fynkorrelrig	107 0	169 0	Sandstone, white, fine-graine
Sandsteen, ligpers, fynkorrelrig (Rooi-lae)	5 8	174 8	Sandstone, light purple, fin grained (Red Beds).
Sandsteen, rooibruin, fynkorrelrig	20 8	—	Sandstone, reddish brown, fin grained.
Sandsteen, wit, met liggroen soorte hier en daar, en rooibruin sandsteen, fynkorrelrig	290 4	—	Sandstone, white, with ligh green variations in place and reddish brown sand stone, fine-grained.
Sandsteen, wit en plek-plek liggroen met liggroen moddersteensoorte hier en daar, fynkorrelrig	29 7	—	Sandstone, white, light gree in places with occasion light green mudstone vari tions, fine-grained.
Sandsteen, persbruin, fynkorrelrig	1 9	—	Sandstone, purplish brow fine-grained.
Sandsteen, wit, met liggroen moddersteensoorte hier en daar, fynkorrelrig	13 1	530 1	Sandstone, white, with ligh green mudstone variatio in places, fine-grained.
Sandsteen, wit, liggroen, fyntot grofkorrelrig (Molteno)	2 8	532 9	Sandstone, white, light gree fine- to coarse-grain (Molteno).
Moddersteen, bruinpers....	14 3	—	Mudstone, brownish purple.
Moddersteen, rooibruin.....	25 8	572 8	Mudstone, reddish brown.
Sandsteen en grintsteen....	4 0	—	Sandstone and grit.
Sandsteen, rooibruin, fynkorrelrig	1 6	—	Sandstone, reddish brown, fin grained.
Grintsteen, met fynkorrelrige sandsteenlagies onderaan	18 10	—	Grit, with fine-grained san stone bands near bottom.
Sandsteen, wit, grofkorrelrig	3 0	600 0	Sandstone, white, fine-graine
Moddersteen, liggroen......	1 3	601 3	Mudstone, light green.
Moddersteen, diepbruin, met vaal moddersteensoorte hier en daar	16 9	618 0	Mudstone, deep brown, wi occasional variations grey mudstone.

BOORGAT 28 : GARIBALDI 955 : BOREHOLE 28.

Kern $\frac{7}{8}$ dm. Core $\frac{7}{8}$ in.

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Grond....................	4 0	4 0	Soil.
Gruis....................	9 0	13 0	Gravel.
Moddersteen, ligbruin......	43 0	56 0	Mudstone, light brown.
Moddersteen, ligpers en gryspers	34 0	—	Mudstone, light purple a greyish purple.
Moddersteen, grysgeel......	6 0	—	Mudstone, greyish yellow.
Moddersteen, pers.........	53 6	—	Mudstone, purple.
Moddersteen, grys.........	29 1	—	Mudstone, grey.
Moddersteen, geel-bruin....	1 3	—	Mudstone, yellowish brown.
Moddersteen, grys.........	26 2	206 0	Mudstone, grey.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie, koolstofhoudend		6	—		Shale, carbonaceous.
Steenkool, hoofsaaklik **glanskool,** met drie skalielagies van 3″	7	0	213	6	**Coal,** mainly bright, with three 3″ shale bands.
Skalie		6	—		Shale.
Steenkool, met skalielagies	1	1	—		**Coal,** with shale bands.
Skalie		11	—		Shale.
Glanskool, met enkele skalielagies	1	7	—		**Coal,** bright, with a few shale bands.
Skalie, koolstofhoudend	10	10	—		Shale, carbonaceous.
Glanskool, met skalielagies		4	—		**Coal,** bright, with shale bands.
Skalie	3	0	—		Shale.
Steenkool en skalie, 50 % **steenkool**	12	6	244	3	**Coal** and shale, 50 % **coal.**
Skalie, met enkele **steenkoollagies**		11	—		Shale with an occasional **coal** band.
Steenkool en skalie, 50 % **steenkool**	10	10	256	0	**Coal** and shale, 50 % **coal.**
Skalie		7	—		Shale.
Glanskool, met skalielagies	3	3	259	10	**Coal,** bright, with shale bands.
Skalie		7	—		Shale.
Glanskool		10	—		**Coal,** bright.
Skalie		10	—		Shale.
Glanskool	1	10	263	11	**Coal,** bright.
Glanskool en skalie	1	8	—		**Coal,** bright, and shale.
Glanskool, met enkele skalielagies	1	5	—		**Coal,** bright, with a few shale bands.
Skalie, met enkele **steenkoollagies**	1	11	—		Shale, with a few **coal** bands.
Glanskool, met enkele skalielagies	2	1	—		**Coal,** bright, with a few shale bands.
Skalie		8	—		Shale.
Glanskool en skalie	5	8	—		**Coal,** bright, and shale.
Glanskool, met 5″ skalie in middel	7	10	285	2	**Coal,** bright, with 5″ shale in middle.
Skalie en **steenkool**		10	—		Shale and **coal.**
Skalie	2	0	—		Shale.
Glanskool, met heelwat skalielae	12	0	300	0	**Coal,** with many shale bands.
Skalie, met **steenkoollagies**	6	0	—		Shale, with **coal** bands.
Glanskool, met skalielagies	2	4	—		**Coal,** bright, with shale bands.
Skalie	3	8	—		Shale.
Glanskool	1	4	—		**Coal,** bright.
Skalie	1	1	—		Shale.
Glanskool en skalie, 50 % **steenkool**	7	5	—		**Coal,** bright, and shale, 50 % **coal.**
Glanskool, met 3″ skalie naby onder-ent	2	5	324	3	**Coal,** bright, with 3″ shale near bottom.
Glanskool en skalie	1	3	—		**Coal,** bright, and shale.
Glanskool	1	9	327	3	**Coal,** bright.
(Modderkorrels begin op 329 vt.)					(Clay pellets start at 329 ft.)
Glanskool en skalie	7	9	—		**Coal,** bright, and shale.
Skalie, **steenkool** en sanderige skalie	1	3	—		Shale, **coal** and sandy shale.
Steenkool, met enkele skalielae	6	2	342	5	**Coal,** with a few shale bands.
Glanskool		10	—		**Coal,** bright.
Skalie	1	2	—		Shale.
Glanskool		11	—		**Coal,** bright.
Skalie		8	—		Shale.
Glanskool	1	0	—		**Coal,** bright.
Skalie		7	—		Shale.

Bg. 28 (*Verv.*) B.H. 28 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Steenkool, met baie modderkorrels	1	3	—		**Coal,** with many clay pellets.
(Modderkorrels eindig op 348 vt. 10 dm.)					(Clay pellets end at 348 vt. 10 ins.)
Skalie, met **steenkoollagies**	5	10	—		Shale, with **coal** bands.
Steenkool, met baie skalielagies	1	1	—		**Coal,** with many shale bands.
Skalie, met **steenkoollae**	9	9	—		Shale, with **coal** bands.
Steenkool en skalie, met baie modderkorrels	1	9	—		**Coal** and shale, with many clay pellets.
Skalie, met **steenkoollae**	8	3	—		Shale, with **coal** bands.
Steenkool en skalie, hoofsaaklik **steenkool**	6	4	381	10	**Coal** and shale, mainly **coal.**
Glanskool, met baie modderkorrels	1	6	—		**Coal,** bright, with many clay pellets.
Skalie met **steenkoollae**	3	4	—		Shale, with **coal** bands.
Steenkool en skalie, hoofsaaklik **steenkool**	1	10	—		**Coal,** and shale, mainly **coal.**
Skalie, met 'n paar **steenkoollagies**	3	6	—		Shale, with a few **coal** bands.
Glanskool, met 'n paar skalielagies	1	4	—		**Coal,** bright, with a few shale bands.
Skalie, met 'n paar **steenkoollae**	11	10	405	2	Shale, with a few **coal** bands
Sandsteen, baie fynkorrelrig, swart		5	405	7	Sandstone, very fine-grained, black.
Skalie	1	8	407	3	Shale.
Sandsteen, baie fynkorrelrig, swart, met swart skalie om die beurt	3	4	410	7	Sandstone, very fine-grained, black, alternating with black shale.
Skalie, met **steenkoollagies** hier en daar	4	11	415	0	Shale, with an occasional **coa** band.
Moddersteen, grys		6	—		Mudstone, grey.
Moddersteen, grys, met 'n paar **steenkoollagies**		10	—		Mudstone, grey, with a few **coal** bands.
Sandsteen, baie fynkorrelrig en growwer na onder, swart, met 'n paar **steenkoollagies**	1	8	—		Sandstone, very fine-grained and coarser towards bottom, with a few **coal** bands.
Steenkool en skalie	7	6	426	0	**Coal** and shale.
Skalie	1	3	—		Shale.
Moddersteen, grys met skalielagies		10	—		Mudstone, grey, with shale bands.
Sandsteen, middelkorrelrig, swart, met skalielagies		5	—		Sandstone, medium-grained black with shale bands.
Steenkool, oorwegend dof, met enkele skaliebandjies	12	0	440	6	**Coal,** mainly dull, with a few shale bands.
Skalie, met **steenkoollae** hier en daar	17	3	—		Shale with an occasional **coal** band.
Steenkool, skalieagtig	1	6	459	3	**Coal,** shaly.
Steenkool, dof	3	8	462	11	**Coal,** dull.
Skalie		10	—		Shale.
Steenkool, dof en skalieagtig	1	0	464	9	**Coal,** dull and shaly.
Steenkool, dof en glansend, hoofsaaklik met 'n paar skalielagies na onder skalie, met dowwe **steenkoolgedeelte** hier en daar	5	4	—		Shale of dull **coal.**
Steenkool, dof	1	1	474	9	**Coal,** dull.
Skalie, **steenkoolagtig**	1	3	—		Shale, **coaly.**
Steenkool, dof	1	5	477	5	**Coal,** dull.
Sandsteen, swart, fynkorrelrig en word 'n skalieagtige sandsteen na bo	10	10	—		Sandstone, black, fine-grained and becomes a shaly sandstone towards top.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
alie	2	0	—		Shale.
eenkool, dof		8	490	11	**Coal,** dull.
alie	2	2	—		Shale.
ndsteen, fynkorrelrig tot grintagtig, grys swart	3	4	—		Sandstone, fine-grained to gritty, greyish black.
ndsteen, fynkorrelrig, swart, met skalielagies	1	0	—		Sandstone, fine-grained, black, with shale bands.
ndsteen, fynkorrelrig, met grintsteen om die beurt, laasgenoemde oorwegend	8	7	—		Sandstone, fine-grained, alternating with grit, latter predominating.
eenkool, dof, met 'n paar skalielagies en baie modderkorrels	8	3	514	3	**Coal,** dull, with a few shale bands and many clay pellets.
alie en **steenkool**	1	9	—		Shale and **coal.**
alie	1	0	—		Shale.
ndsteen, baie fynkorrelrig, effens growwer aan bo-ent, grys-swart	6	0	—		Sandstone, very fine-grained, slightly coarse at top, greyish black.
intsteel, vuilgrys	1	6	—		Grit, dirty grey.
eenkool, dof, en skalie	2	4	—		**Coal,** dull, and shale.
ndsteen, grofkorrelrig, vuil wit	4	6	—		Sandstone, coarse-grained. dirty white.
anskool en dofkool	5	2	536	6	**Coal,** bright, and dull.
ndsteen, grofkorrelrig, met enkele **steenkoollagies**	13	0	549	6	Sandstone, coarse-grained with an occasional **coal** band.
eenkool, dof en skalie	1	6	—		**Coal,** dull, and shale.
eenkool, dof met 'n paar skalielagies	5	0	556	0	**Coal,** dull, with a few shale streaks.
alie	2	0	—		Shale.
eenkool, dof, met een 2″ en een 3″ skalielaag	7	10	565	10	**Coal,** dull with one 2″ and one 3″ shale band.
ndsteen, fynkorrelrig, vaalwit		1	—		Sandstone, fine-grained, greyish white.
eenkool, dof	1	1	567	0	**Coal,** dull.
eenkool, dof, met skalie	1	6	568	6	**Coal,** dull, with shale.
ndsteen, fynkorrelrig, vuilwit	1	0	—		Sandstone, fine-grained, dirty white.
eenkool, en skalie	1	10	571	4	**Coal** and shale.
ndsteen, fynkorrelrig, vuilwit tot grysswart	4	8	—		Sandstone, fine-grained, dirty white to greyish black.
ndsteen, grofkorrelrig, en grintsteen, wit	42	0	—		Sandstone, coarse-grained, and grit, white.
ndsteen, fyn- en grofkorrelrig, met grintsteen en skalielae om die beurt	7	2	625	2	Sandstone, fine- and coarse-grained, alternating with grit and shale bands.
alie		10	—		Shale.
ndsteen en skalie beurtelings	10	0	—		Sandstone and shale, alternating.
ndsteen, grofkorrelrig, grys		2	—		Sandstone, coarse-grained grey.
alie		2	—		Shale.
ndsteen		1	—		Sandstone.
alie		1	—		Shale.
ndsteen, middelkorrelrig, grys		3	—		Sandstone, medium-grained, grey.
alie, swart		3	—		Shale, black.
ndsteen, grofkorrelrig, wit	16	9	—		Sandstone, coarse-grained, white.
ndsteen en skalie beurtelings	4	3	—		Sandstone and shale, alternating.
ndsteen, grofkorrelrig, wit	18	0	676	0	Sandstone, coarse-grained, white.

BOORGAT 29 : LISBON 980 : BOREHOLE 29.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Grond	3	0	—		Soil.
Grond, gruis en spoelklippies	24	0	—		Soil, gravel and pebbles.
Rooi-lae	130	0	—		Red beds.
Sandsteen, grofkorrelrig tot fynkorrelrig	20	0	—		Sandstone, coarse-grained t fine-grained.
Moddersteen	15	0	192	0	Mudstone.
Moddersteen, gryspers met bruin dele van kwartskorrels met bruin kleimateriaal gesementeer	2	7	—		Mudstone, greyish purple con taining brown portions c quartz grains cemented wit brown clay-material.
Moddersteen, grys tot gryspers met enkele bruin dele	3	5	198	0	Mudstone, grey to greyis purple with a few brow portions.
Moddersteen, grys tot gryspers met enkele bruin strepe	12	4	—		Mudstone, grey to greyis purple with a few brow streaks.
Moddersteen, persbruin	6	9	—		Mudstone, purplish brown.
Moddersteen, grys en gryspers	23	2	240	3	Mudstone, grey and greyis purple.
Moddersteen, grys en vaalkleurig	3	2	243	5	Mudstone, grey and bu coloured.
Moddersteen, grys en gryspers	26	7	270	0	Mudstone, grey and greyis purple.
Moddersteen, grys en pers.	35	4	—		Mudstone, grey and purple.
Moddersteen, grys	13	0	—		Mudstone, grey.
Skalie, koolstofhoudend met baie piriet	5	4	—		Shale, carbonaceous with muc pyrite.
Skalie, koolstofhoudend met lagies **steenkool**	1	4	325	0	Shale, carbonaceous wit bands of **coal.**
Skalie		1	—		Shale.
Glanskool met skaliestrepe.		6	—		**Coal,** bright, with shale streaks
Skalie		6	—		Shale.
Glanskool met skaliestrepe.		5	—		**Coal,** bright, with shale streaks
Skalie		1	—		Shale.
Glanskool met skaliestrepe.	1	0	—		**Coal,** bright, with shale streaks
Skalie		9	—		Shale.
Steenkool en skalie		2	—		**Coal** and shale.
Glanskool met skaliestrepe.		5	—		**Coal,** bright, with shale streaks.
Skalie met **steenkoolstrepies.**		9	—		Shale with **coal** streaks.
Glanskool en skalie ; 50 % **steenkool**		11	—		**Coal,** bright, and shale ; 50 % **coal.**
Skalie		3	—		Shale.
Skalie en **steenkool**		9	—		Shale and **coal.**
Glanskool met skaliestrepies		3	—		**Coal,** bright, with shale streaks
Steenkool en skalie		1	—		**Coal** and shale.
Glanskool met skaliestrepies		5	—		**Coal** with shale streaks.
Skalie met **steenkoolstrepe.**		3	—		Shale with **coal** streaks.
Skalie en **glanskool,** skalie oorwegend		9	—		Shale and bright **coal,** shal predominating.
Skalie en **steenkool,** 80 % skalie	1	6	-		Shale and **coal,** 80 % shale.
Glanskool en skalie, 60 % **steenkool**		4	—		**Coal,** bright and shale, 60 % **coal.**
Skalie met **steenkoolstrepies**		4	—		Shale with **coal** streaks.
Steenkool en skalie, piriethoudend, 50 % **steenkool**	1	2			**Coal** and shale, pyritic ; 50 % **coal.**
Skalie		5	—		Shale.
Glanskool en skalie, 40 % **steenkool**		6	-		**Coal,** bright, and shale, 40 % **coal.**
Skalie en **glanskool** ; 80 % skalie		6	—		Shale and bright **coal,** 80 % shale.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie....................		3	—		Shale.
Glanskool en skalie; 40 % **steenkool**		5	—		**Coal,** bright, and shale; 40 % **coal.**
Skalie met **steenkoolstrepies**		2	—		Shale with **coal** streaks.
Glanskool met skaliestrepe.		11	—		**Coal,** bright, with shale streaks.
Skalie....................		4	—		Shale.
Glanskool met skaliestrepe.	1	1	—		**Coal,** bright, with shale streaks.
Glanskool, kalsiethoudend; 70 % **steenkool**		7	—		**Coal,** bright, calcitic; 70 % **coal.**
Skalie....................		2	—		Shale.
Glanskool en skalie; 70 % **steenkool**	1	3	345	8	**Coal,** bright, and shale, 70 % **coal.**
Skalie met **steenkoolstrepies**	3	6	349	2	Shale with **coal** streaks.
Glanskool en skalie; 50 % **steenkool**		3	—		**Coal,** bright, and shale; 50 % **coal.**
Skalie....................		6	—		Shale.
Glanskool met skaliestrepies		7	—		**Coal,** bright, with shale streaks.
Skalie....................		5	—		Shale.
Glanskool met skaliestrepies	1	1	—		**Coal,** bright, with shale streaks.
Skalie....................		8	—		Shale.
Glanskool en skalie; 80 % **steenkool**		4	—		**Coal,** bright, and shale, 80 % **coal.**
Skalie....................		1	353	1	Shale.
Skalie....................	4	3	357	4	Shale.
Skalie....................		3	—		Shale.
Steenkool, dof, kalsiethoudend		7	—		**Coal,** dull, calcitic.
Steenkool en skalie, kalsiethoudend		5	—		**Coal** and shale, calcitic.
Glanskool met skaliestrepe, kalsiethoudend		6	—		**Coal** with shale streaks, containing calcite.
Skalie en **steenkool**; 60 % skalie		2	359	3	Shale and **coal**; 60 % shale.
Skalie met **steenkoolstrepe**..		10	—		Shale with **coal** streaks.
Glanskool................		8	—		**Coal,** bright.
Skalie....................	1	7	362	4	Shale.
Skalie....................		2	—		Shale.
Glanskool met skaliestrepies		3½	—		**Coal,** bright, with shale streaks.
Skalie en **glanskool,** 80 % skalie		9½	—		Shale and bright **coal,** 80 % shale.
Glanskool met skaliestrepies		2	—		**Coal,** bright, with shale streaks.
Skalie....................		4	—		Shale.
Skalie en **glanskool**........		4	—		Shale and bright **coal.**
Glanskool met kalsiet en piriet	3	5	367	10	**Coal,** bright, with calcite and pyrite.
Skalie....................	5	7	—		Shale.
Skalie met **glanskoollagies** van 2″ tot 6″ dik	7	4	—		Shale with bright **coal** bands of 2″ to 6″ thick.
Steenkool, oorwegend, met skalie	1	3	—		**Coal** with shale, mainly **coal.**
Skalie met twee **steenkoollagies** van 1″ en 6″	4	0	386	0	Shale with two **coal** bands of 1″ and 6″.
Skalie met **steenkoolstrepe**.		3	—		Shale with **coal** streaks.
Glanskool en skalie; 60 % skalie 6″ bros **steenkool** onderaan; met glyvlakkies	1	8	—		**Coal,** bright, and shale, 60 % shale, 6″ brittle **coal** at the bottom; with slickensides.
Skalie....................		1	—		Shale.
Glanskool en skalie; 80 % **steenkool**	1	9	—		**Coal,** bright, and shale; 80 % **coal.**
Skalie en **glanskool**........	1	0	—		Shale and bright **coal.**
Glanskool en skalie; 50 % **steenkool**		4			**Coal,** bright, and shale; 50 % **coal.**

Aard van lae.	Dikte v rkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie....................		1	—		Shale.
Skalie en **glanskool ;** 90 % skalie		4	—		Shale and bright **coal ;** 90 % shale.
Glanskool en skalie ; 50 % **steenkool**		3	—		**Coal,** bright, and shale, 50 % **coal.**
Skalie....................		2	—		Shale.
Skalie en **glanskool ;** 40 % **steenkool**		11	—		Shale and bright **coal ;** 40 % **coal.**
Skalie....................		5	—		Shale.
Glanskool en skalie met baie piriet ; 90 % **steenkool**		7	—		**Coal,** bright, and shale with much pyrite, 90 % **coal.**
Skalie....................		4	—		Shale.
Glanskool en skalie met baie piriet, 90 % **steenkool**		3	—		**Coal,** bright, and shale with much pyrite, 90 % **coal.**
Skalie met enkele **steenkoolstrepe**		10	—		Shale with a few **coal** streaks.
Glanskool met skaliestrepies.		9	—		**Coal,** bright, with shale streaks
Skalie, **steenkool** en piriet..		5	—		Shale, **coal** and pyrite.
Skalie....................		7	—		Shale.
Steenkool en skalie ; 50 % **steenkool**		4	—		**Coal** and shale ; 50 % **coal.**
Skalie....................		5	—		Shale.
Skalie en **glanskool,** 80 % skalie		5	—		Shale and bright **coal,** 80 % shale.
Skalie....................		3	—		Shale.
Glanskool met skaliestrepies, 1" pirietknol ingesluit		7	—		**Coal,** bright, with shale streaks 1" pyrite nodule included.
Skalie....................		5	398	6	Shale.

Volgens B.N.I.-mate is daar 11" kern te veel tussen 386′ en 398′ 6".

According to F.R.I. measurements there is 11" of core too much between 386′ and 398′ 6".

Aard van lae.	Dikte v rkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie met **steenkoollagies**..	2	2	—		Shale with **coal** bands.
Glanskool, oorwegend......		9	—		**Coal;** bright mainly.
Skalie met **steenkoolstrepe**..	2	3	—		Shale with **coal** bands.
Steenkool, oorwegend glansend met baie piriet	1	0	—		**Coal,** mainly bright with much pyrite.
Skalielagies en **steenkool**...	2	4	—		Shale bands and **coal.**
Skalie....................	2	5	409	5	Shale.
Glanskool, oorwegend......		9	—		**Coal,** predominantly bright.
Skalie met vier lagies **steenkool** van —3" dik	4	0	414	2	Shale with four bands of **coal** of —3" thick.
Skalie....................		2	—		Shale.
Glanskool en skalie met piriet, 90 % **steenkool**	1	3	415	7	**Coal,** bright, and shale with pyrite, 90 % **coal.**
Skalie met lagies **glanskool** en baie piriet	8	0	423	7	Shale with bands of bright **coal** and much pyrite.
Glanskool.................		5	—		**Coal,** bright.
Skalie....................		1	—		Shale.
Glanskool met skaliestrepies		5	—		**Coal,** bright, with shale streaks
Skalie met **steenkoolstrepies**		6	425	0	Shale with **coal** streaks.
Skalie, koolstofhoudend met baie **steenkoolstrepe** en kleiklontjies	20	7	—		Shale, carbonaceous, with numerous **coal** streaks and clay clods.
Skalie, swart, met baie wit spikkels en talle glasige kwartskorrels	11	8	—		Shale, black, with many white spots and numerous glassy quartz grains.

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
kalie, koolstofhoudend met enkele dun **steenkool-strepies,** vol glyvlakke onderin en baie verbrokkel	14 8	—	Shale, carbonaceous, with some thin **coal** streaks; full of slickensides at bottom and broken.
andsteen, skalieagtig grys.	8	472 7	Sandstone, shaly grey.
kalie, koolstofhoudend met enkele strepies **steenkool**	7 10	480 5	Shale, carbonaceous with a few streaks of **coal.**
andsteen, skalieagtig, grysbruin	4	—	Sandstone, shaly, greyish brown.
kalie, swart, sanderig.....	10	—	Shale, black, sandy.
kalie, grys, sanderig......	1 8	—	Shale, grey, sandy.
andsteen, grys, kleiïg met grofkorrelrige dele na onder	8 9	492 5	Sandstone grey, argillaceous with course-grained portions towards the bottom.

BOORGAT 29 : LISBON 980 : BOREHOLE 29.

No. van monster B.-N.-I. F.R.I. ample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
27	—	—	325 0	—
	Skalie, **N.G.**..........	½	—	Shale, **N.S.**
L	**Glanskool** met skalie-**strepe**	6	--	**Coal,** bright, with shale streaks.
	Skalie, **N.G.**..........	6	--	Shale, **N.S.**
K	**Glanskool** met skaliestrepe, 50 % **steenkool**	5	--	**Coal,** bright, with shale streaks, 50 % **coal.**
	Skalie, **N.G.**..........	1	—	Shale, **N.S.**
	Glanskool met skaliestrepe, 50 % skalie	12	—	**Coal,** bright with shale streaks 50 % shale.
	Skalie, **N.G.**..........	9½	—	Shale, N.S.
	Steenkool en skalie, **N.G.**	2	—	**Coal** and shale, **N.S.**
J	**Glanskool** met skaliestrepe	5	—	**Coal,** bright with shale streaks.
	Skalie met **steenkoolstrepies, N.G.**	9	—	Shale with **coal** streaks, **N.S.**
H	**Glanskool** en skalie, 50 % skalie	11	—	**Coal,** bright, and shale, 50 % shale.
	Skalie, **N.G.**..........	2½	—	Shale, **N.S.**
	Skalie en steenkool, **N.G.**	9½	—	Shale and **coal.**
G	**Glanskool** met skaliestrepe	3	—	**Coal,** bright, with shale streaks.
	Skalie en **steenkool, N.G.**	1	—	Shale and **coal, N.S.**
	Glanskool met skaliestrepe	5	—	**Coal,** bright, with shale streaks, **N.S.**
	N.G..................	30	—	**N.S.**
F	**Glanskool** en skalie, 40 % skalie	4	—	**Coal,** bright and shale, 40 % shale.
	Skalie, met **steenkoolstrepies, N.G.**	4	-	Shale, with **coal** streaks, **N.S.**
	Glanskool en skalie, piriethoudend, 50 % skalie	14	—	**Coal,** bright, and shale, pyritic, 50 % shale.

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
	Skalie, **N.G.**...........	5	—	Shale, **N.S.**
E	**Glanskool** en skalie, 40 % **steenkool**	6	—	**Coal,** bright, and sha 40 % **coal.**
	Skalie en **glanskool,** 80 % skalie, **N.G.**	6	—	Shale and bright **co** 80. % Shale, **N.S.**
	Skalie, **N.G.**...........	3½	—	Shale, **N.S.**
D	**Glanskool** en skalie, 40 % **steenkool**	5	—	**Coal,** bright, and sha 40 % **coal.**
	Skalie met **steenkoolstrepies, N.G.**	2	—	Shale with **coal** streak **N.S.**
C	**Glanskool** met skaliestrepe	10½	—	**Coal,** bright with sha streaks.
	Skalie, **N.G.**...........	4	—	Shale, **N.S.**
	Glanskool met skaliestrepe	13	—	**Coal,** bright with sha streaks.
B	**Glanskool,** kalsiethoudend	7	—	**Coal,** bright, calcitic.
	Skalie, **N.G.**...........	1	—	Shale, **N.S.**
	Glanskool met skaliestrepe	4	—	**Coal,** bright with sha streaks.
	Skalie, **N.G.**...........	3	—	Shale, **N.S.**
A	**Glanskool** en skalie, kalsiethoudend, 70 % **steenkool**	6	—	**Coal,** bright, and sha calcitic, 70 % **coal.**
	Skalie, **N.G.**...........	2	—	Shale, **N.S.**
	Glanskool en skalie, 30 % skalie	15	345 8	**Coal,** bright, and sha 30 % shale.
N 28	—	—	349 2	—
C	**Glanskool** en skalie, 50 % **steenkool**	3	—	**Coal,** bright, and sha. 50 % **coal.**
	Skalie, **N.G.**...........	6	—	Shale, **N.S.**
B	**Glanskool** met skaliestrepe	7	—	**Coal,** bright, with sha streaks.
	Skalie, **N.G.**...........	5	—	Shale, **N.S.**
	Glanskool met skaliestrepe	13	—	**Coal,** bright, with sha streaks.
	Skalie met ½″ **steenkool** in die middel, **N.G.**	8		Shale with ½″ **coal** ba in centre, **N.S.**
A	**Glanskool** en skalie, 80% **steenkool**	4	—	**Coal,** bright, and shal 80 % **coal.**
	Skalie, **N.G.**...........	1	353 1	Shale, **N.S.**
N 29	—	—	357 7	—
D	**Steenkool,** dof, met skaliestrepe, kalsiethoudend	7	—	**Coal,** dull, with sha streaks, calcitic.
	Steenkool, gemeng met skaliestrepe, kalsiethoudend	5	—	**Coal,** mixed, with sha streaks, calcitic.
C	**Glanskool** met skaliestrepe, kalsiethoudend	6 —	359 1 362 6	**Coal,** bright with sha streaks, calcitic.
B	**Glanskool** met skaliestrepe	3½	—	**Coal,** bright with sha streaks.
	Skalie en **glanskool, N.G.**	9½		Shale and bright **co** **N.S.**
	Glanskool met skaliestrepe	2	363 9	**Coal,** bright with sha bands.
—	—	—	364 5	—
A	**Glanskool,** met kalsiet en piriet	41	367 10	**Coal,** bright, with ca cite and pyrite.

Bg. 29 (*Verv.*) B.H. 29 (*Contd.*)

No. van mónster B.-N.-I. F.R.I. ample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
—	—	—	386 0	—
	Skalie met **steenkool-strepies, N.G.**	3	—	Shale with **coal** streaks, **N.S.**
F	**Glanskool** en skalie, 60 % **steenkool,** 6″ bros **steenkool** vol glyvlakke onder	20	—	**Coal,** bright, and shale, 60 % **coal,** 6″ brittle **coal** full of slickensides at the bottom.
	Skalie, **N.G.**	1	—	Shale, **N.S.**
E	**Glanskool** en skalie, 50 % **steenkool**	21	—	**Coal,** bright and shale, 50 % **coal.**
	Skalie en **glanskool, N.G.**	12	—	Shale and bright **coal, N.S.**
	Glanskool en skalie, 50 % skalie	4½	—	**Coal,** bright and shale, 50 % shale.
	Skalie en **glanskool, N.G.**	4½	—	Shale and bright **coal, N.S.**
D	**Glanskool** en skalie, 50 % skalie	3	—	**Coal,** bright and shale, 50 % shale.
	Skalie, **N.G.**	2	—	Shale, **N.S.**
	Glanskool en skalie, 40 % **steenkool**	11	—	**Coal,** bright and shale, 40 % **coal.**
	Skalie, **N.G.**	5	—	Shale, **N.S.**
C	**Glanskool** en skalie, baie piriet, 90 % **steenkool**	7	—	**Coal,** bright, and shale, much pyrite in it, 90 % **coal.**
	Skalie, **N.G.**	4	—	Shale, **N.S.**
	Glanskool en skalie, piriethoudend 90 % **steenkool**	3	—	**Coal,** bright, and shale, pyritic, 90 % **coal.**
	Skalie met enkele **steenkoolstrepe**	10	—	Shale with occasional **coal** streaks.
B	**Glanskool** met skaliestrepe, piriethoudend	9	—	**Coal,** bright, with shale bands, pyritic.
	N.G.	29	—	**N.S.**
A	**Glanskool** met skaliestrepe, 1″ pirietknol uitgesluit	7	—	**Coal,** bright, with shale bands, 1″ pyrite nodule excluded.
	Skalie, **N.G.**	5	398 6	Shale, **N.S.**

Afgemete kern 11″ te veel tussen 386′ en 398′ 6″.

Measured core 11″ more than given measurements between 386′ and 398′ 6″.

31	—	—	414 4	—
	Glanskool en skalie, piriethoudend, 90 % **steenkool**	15	415 7	**Coal,** bright, and shale, pyritic, 90 % **coal.**
	—	—	423 7	—
32	**Glanskool**	5	—	**Coal,** bright.
	Skalie, **N.G.**	1	—	Shale, **N.S.**
	Glanskool met skaliestrepe	5	424 6	**Coal,** bright, with shale streaks.

BOORGAT 29 : LISBON 980 : BOREHOLE 29.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
N 27 L	6	—	2·6	32·8	29·1	35·5	13·3	6·5	46·0	11·9	3	2½
K	17	—	2·6	34·4	29·8	33·2	13·9	6·7	44·4	10·3	4	3½
J	5		2·6	29·2	30·6	37·6	37·6	6·5	57·7	12·9	4½	3½
H	11		2·4	30·2	31·3	36·1	36·1	4·0	53·2	8·2	3½	3½
G	8	—	2·7	27·6	29·3	40·4	42·1	7·1	64·3	13·2	4	4
F	18		2·6	32·4	31·9	33·1	36·8	6·4	51·5	12·9	4	3
E	6	—	2·9	26·3	33·7	37·1	44·2	7·6	65·3	13·3	4½	3
D	5	—	2·7	33·2	28·4	35·7	34·9	5·1	50·6	8·9	4	4
C	23½	11·4	3·2	18·9	33·6	44·3	63·2	7·9	81·3	11·4	4½	3½
B	11	11·6	3·2	16·4	35·0	45·4	70·5	7·5	85·7	10·2	4½	4
A	21	—	2·9	27·9	32·8	36·4	47·3	7·5	66·1	11·6	4	2½
N 28 C	3		2·8	23·8	32·6	40·8	46·2	8·9	77·6	16·6	3½	1½
B	20	—	3·0	21·1	32·1	43·8	54·4	6·3	73·8	10·6	3	2½
A	4	—	3·0	18·3	34·0	44·7	70·7	9·8	84·9	12·2	3	3
N 29 D	12	—	2·9	22·2	32·2	42·7	54·8	11·7	81·9	15·6	3½	2
C	6	11·6	3·2	16·9	33·2	46·7	73·7	10·5	90·2	13·5	3	2
B	5½	11·4	3·0	17·5	33·3	46·2	62·8	8·1	83·2	11·6	4½	4
A	41	11·3	2·9	19·6	33·0	44·5	60·7	8·3	81·2	11·2	4½	3½
N 30 F	20	—	2·7	27·1	30·2	40·0	37·7	8·0	63·4	14·2	4½	2
E	25½	—	2·8	35·4	25·9	35·9	31·2	7·6	50·4	12·0	3½	2
D	14	—	3·0	32·4	26·6	38·0	36·0	6·3	52·4	10·4	3	2
C	10	—	2·9	29·4	28·4	38·9	37·7	8·0	58·0	12·4	3½	2
B	9		3·1	29·0	28·8	39·1	45·0	7·1	59·4	10·7	2½	2½
A	7	—	3·1	24·3	30·4	42·2	48·1	5·5	67·4	10·4	3	2½
N 31	15	—	2·8	26·1	29·4	41·7	47·4	6·8	63·1	10·1	3	2½
N 32	10	—	3·0	20·2	32·0	44·8	60·7	6·6	72·4	9·1	3½	2½

BOORGAT 30 : WITKOPJE 658 : BOREHOLE 30.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
loddersteen, verweerd.....	2	0	—		Mudstone, weathered.
loddersteen, grys ; onderste 18′ 9″ is baie hard en blou-grys	91	9	93	9	Mudstone, grey ; the bottom 18′ 9″ is very hard and bluish grey.
teenkool, glansend met skaliestrepe		4	—		**Coal,** bright, with shale streaks.
teenkool, glansend met skaliestrepe, gevlek deur water	1	1	—		**Coal,** bright, with shale streaks, waterstained.
kalie....................	4	1	—		Shale.
kalie en **glanskool ;** 80 % skalie		9	—		Shale and bright **coal ;** 80 % shale.
teenkool, glansend met skalielagies, gevlek deur water	1	3	—		**Coal,** bright, with shale bands, waterstained.
kalie....................		6	—		Shale.
teenkool, glansend piriethoudend met skaliestrepe		7	—		**Coal,** bright, very pyritic, with shale streaks.
kalie....................	1	0	—		Shale.
kalie met enkele strepe **glanskool**		6	—		Shale with occasional streaks of bright **coal.**
eenkool, glansend, baie skaliestrepe, piriethoudend		4	—		**Coal,** bright, many shale streaks, pyritic.
kalie....................		4	—		Shale.
eenkool, glansend en skalie ; 20 % skalie		6	—		**Coal,** bright, and shale ; 20 % shale.
kalie....................		8	—		Shale.
eenkool, glansend en skalie ; 30 % skalie		11	—		**Coal,** bright, and shale ; 30 % shale.
kalie met enkele strepe **steenkool**		6	—		Shale with occasional streaks of **coal.**
eenkool, glansend, en skalie ; 50 % skalie		8	107	9	**Coal,** bright, and shale ; 50 % shale.
kalie met **steenkoolstrepe**..	2	7	110	4	Shale with streaks of **coal.**
eenkool, glansend piriethoudend, en skalie ; 30 % skalie		9	—		**Coal,** bright pyritic, and shale ; 30 % shale.
alie met **glanskoolstrepe**..		3	—		Shale with streaks of bright **coal.**
kalie....................		3	—		Shale.
eenkool, glansend, en skalie ; 50 % **steenkool**		9	—		**Coal,** bright, and shale ; 50 % **coal.**
kalie....................		6	—		Shale.
kalie met enkele **glanskoolstrepe**		11	—		Shale with occasional streaks of bright **coal.**
eenkool en skalie ; 75 % skalie		8	—		**Coal** and shale ; 75% shale.
kalie en **glanskool**........		5	—		Shale and bright **coal.**
eenkool en skalie ; 40 % skalie		5	—		**Coal,** bright, and shale ; 40 % shale.
kalie en **glanskool**........		4	—		Shale and bright **coal.**
kalie met enkele strepe **steenkool**	1	1	—		Shale with occasional streaks of **coal.**
kalie en **glanskool**........		5	—		Shale and bright **coal.**
kalie met enkele strepe **steenkool**	1	1	—		Shale with occasional streaks of **coal.**
alie en **glanskool ;** 80 % skalie		6	—		Shale and bright **coal ;** 80 % shale.
alie....................		4	—		Shale.
alie met enkele strepe **glanskool**		3	—		Shale with occasional streaks of bright **coal.**

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
Steenkool, glansend, en skalie ; 50 % skalie	1	0	—		**Coal,** bright, and shale ; 50 shale.
Skalie met enkele strepe **glanskool**	3	6	—		Shale with occasional streak of bright **coal.**
Steenkool, glansend, en skalie ; 50 % skalie		8	—		**Coal,** bright, and shale ; 50 shale.
Skalie met strepe **glanskool**	1	3	—		Shale with streaks of brigh **coal.**
Steenkool, glansend, en skalie ; 60 % skalie	1	0	—		**Coal,** bright, and shale ; 60 shale.
Skalie met strepe **glanskool**	1	2	—		Shale with streaks of brigh **coal.**
Glanskool en skalie ; 60 % skalie		6	—		**Coal,** bright, and shale ; 60 shale.
Skalie met strepe **glanskool**	2	7	—		Shale with streaks of brigh **coal.**
Steenkool, glansend, kalsiethoudend met skaliestrepe	1	1	—		**Coal,** bright, calcitic, wi shale streaks.
Skalie en **glanskool**........		9	—		Shale and bright **coal.**
Glanskool, en skalie ; 40 % skalie		6	—		**Coal,** bright, and shale ; 40 shale.
Skalie met strepe **glanskool**		11	—		Shale with streaks of brig **coal.**
Glanskool en skalie ; 50 % skalie		10	—		**Coal,** bright, and shale ; 50 shale.
Skalie....................		6	—		Shale.
Glanskool met skaliestrepe.	2	5	138	6	**Coal,** bright, with streaks shale.
Skalie....................	1	1	139	7	Shale.
Glanskool en skalie, 10 % skalie		4	—		**Coal,** bright, and shale ; 10 shale.
Skalie met strepe **glanskool**		2	—		Shale with streaks of brig **coal.**
Glanskool en skalie ; 10 % skalie		2	—		**Coal,** bright, and shale ; 10 shale.
Skalie....................		4	—		Shale.
Glanskool, met strepies skalie	2	0	—		**Coal,** bright, with shale streak
Skalie met **glanskoolstrepies**		3	—		Shale with streaks of brig **coal.**
Glanskool, met skaliestrepies	1	8	144	6	**Coal,** bright, with shale streak
Skalie met **steenkoolstrepe**..	14	4	158	10	Shale with **coal** streaks.
Glanskool en skalie ; 10 % skalie	1	2	—		**Coal,** bright, and shale ; 10 shale.
Skalie....................	2	9	—		Shale.
Steenkool, glansend korrelrig, met klein sandsteenstrepies	1	7	164	3	**Coal,** bright granular, wi small sandstone streaks.
Skalie....................	7	11	172	3	Shale.
Steenkool, glansend piriethoudend met skaliestrepe		7	—		**Coal,** bright pyritic with sha streaks.
Skalie....................		1½	—		Shale.
Steenkool, glansend piriethoudend met skaliestrepe		6½	173	6	**Coal,** bright pyritic with sha streaks.
Skalie met **steenkoolstrepe**..	2	11	176	5	Shale with bands of **coal.**
Steenkool, glansend, en skalie ; 50 % skalie		7	—		**Coal,** bright, and shale ; 50 shale.
Skalie met **steenkoolstrepe**..		2	—		Shale with **coal** streaks.
Steenkool, glansend, met skalie ; 50 % skalie	1	2	—		**Coal,** bright, and shale ; 50 shale.
Skalie met **steenkoolstrepe**..		2	—		Shale with **coal** streaks.
Glanskool en skalie ; 50 % skalie		4	—		**Coal,** bright, and shale ; 50 shale.
Skalie met **steenkoolstrepe**..		5	179	3	Shale with **coal** streaks.
Skalie....................	2	9	182	0	Shale.

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
enkool, glansend, en kalie; 30 % skalie	9	—	**Coal,** bright, and shale; 30 % shale.
lie	2 6	185 3	Shale.
lie en **glanskool;** 80 % kalie	4	—	Shale and bright **coal;** 80 % shale.
nskool	2	—	**Coal,** bright.
lie met **glanskoolstrepies**	1	—	Shale with streaks of bright **coal.**
nskool en skalie; 40 % kalie	7	—	**Coal,** bright, and shale; 40 % shale.
lie met **steenkoolstrepies**	2	—	Shale with **coal** streaks.
nskool en skalie; 40 % kalie	4	—	**Coal,** bright, and shale; 40 % shale.
lie	1 1	—	Shale.
enkool, glansend met kaliestrepies	3 1	191 3	**Coal,** bright, with shale streaks.
lie met **steenkoollagies**	9 3	200 6	Shale with bands of **coal.**
nskool en skalie, piriet- oudend; 10 % skalie	1 2	—	**Coal,** bright, and shale, pyritic; 10 % shale.
lie met **steenkoolstrepies**	4	—	Shale with **coal** streaks.
nskool en skalie; piriet- oudend; 10 % skalie	1 2	203 2	**Coal,** bright, and shale, pyritic; 10 % shale.
lie met **steenkoollagies**	14 2	217 4	Shale with bands of **coal.**
enkool, glansend, en alie; 20 % skalie	1 8	—	**Coal,** bright, and shale; 20% shale.
ie	2 1	—	Shale.
lie met **glanskoolstrepies**	3	—	Shale with streaks of bright **coal.**
nskool en skalie; 20 % kalie	8	—	**Coal,** bright, and shale; 20 % shale.
dsteen en **steenkool**	4	—	Sandstone and **coal.**
lie met **steenkoollagies**	5 0	227 4	Shale with **coal** bands.
nskool en skalie	1 0	228 4	**Coal,** bright, and shale.
lie met **steenkoolstrepe**	2 6	230 10	Shale with **coal** streaks.
nskool en skalie; 80 % kalie	9	—	**Coal,** bright, and shale; 80 % shale.
lie met **steenkoollagies**	6 4	—	Shale with **coal** bands.
nskool en skalie, piriet- oudend; 20 % skalie	7	—	**Coal,** bright, and shale, very pyritic; 20 % shale.
lie met **glanskoolstrepies**	3	—	Shale with streaks of bright **coal.**
ie	1 8	—	Shale.
lie met **glanskoolstrepe;** o % skalie	1 3	—	Shale with streaks of bright **coal;** 80 % shale.
lie	1 6	243 2	Shale.
nskool met skalielagies	1 0	244 2	**Coal,** bright, with shale bands.
lie	4 2	248 4	Shale.
nskool en skalie; 50 % kalie	10	—	**Coal,** bright, and shale; 50 % shale.
lie	2 8	251 10	Shale.
enkool, skalieagtig, en kalie, afwisselende lagies; o % skalie	1 9	253 7	**Coal,** shaly, and shale; alternating bands; 30 % shale.
lie met **steenkoollagies**	14	267 8	Shale with **coal** bands.
nskool en skalie; 50 % kalie	8	—	**Coal,** bright, and shale; 50 % shale.
lie	5	—	Shale.
nskool en skalie	7	—	**Coal,** bright, and shale.
nskool en skalie; 20 % kalie	11	270 3	**Coal,** bright, and shale; 20 % shale.
lie	1 9	272 0	Shale.
lie en **glanskool;** 80 % kalie	10	—	Shale and bright coal; 80 % shale.
lie	7	—	Shale.

Bg. 30 (*Verv.*) B.H. 30 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie met **steenkoolstrepies**	2	0	—		Shale with **coal** streaks.
Glanskool en skalie; 50 % skalie		9	276	2	**Coal,** bright, and shale; 50 shale.
Skalie met **steenkoollagies**	2	9	278	11	Shale with **coal** bands.
Skalie en **glanskool**; 80 % skalie		7	—		Shale and bright **coal**; 80 shale.
Glanskool en skalie		4	—		**Coal,** bright, and shale.
Skalie en **glanskool**; 80 % skalie		4	—		Shale and bright **coal**; 80 shale.
Glanskool en skalie		10	281	0	**Coal,** bright, and shale.
Skalie met 2″ grys kleiskalie naby top		11	—		Shale with 2″ of grey claysha near top.
Glanskool en skalie	1	3	283	6	**Coal,** bright, and shale.
Skalie	1	11	285	5	Shale.
Skalie met 3 × 2″ **glanskoollagies**	3	3	—		Shale with 3 × 2″ bands bright **coal.**
Glanskool		7	289	3	**Coal,** bright.
Skalie met **steenkoollagies**	2	7	291	10	Shale with **coal** bands.
Skalie met **glanskoolstrepies**	2	9	—		Shale with streaks of brig **coal.**
Glanskool en skalie		10	—		**Coal,** bright, and shale.
Skalie met **glanskoolstrepies**		2	295	7	Shale with streaks of brig **coal.**
Skalie met **steenkoollagies**	2	5	298	0	Shale with coal bands.
Skalie		3	—		Shale.
Glanskool		7	—		**Coal,** bright.
Skalie		3	—		Shale.
Glanskool		5	—		**Coal,** bright.
Skalie met enkele **glanskoolstrepe**	3	6	—		Shale with occasional strea of bright **coal.**
Skalie en **glanskool**; 80 % skalie		5	—		Shale and bright **coal**; 80 shale.
Skalie met enkele strepe **glanskool**	6	1	—		Shale with occasional strea of bright **coal.**
Skalie		7	—		Shale.
Glanskool		5	—		**Coal,** bright.
Skalie		4	—		Shale.
Glanskool		2	—		**Coal,** bright.
Skalie met min **steenkool**	1	11	—		Shale with little **coal.**
Glanskool		6	—		**Coal,** bright.
Skalie		10	—		Shale.
Glanskool met 3″ skalie 2″ van onder		11	—		**Coal,** bright, with 3″ shale from bottom.
Skalie	3	10	—		Shale.
Glanskool		5	—		**Coal,** bright.
Skalie		8	320	1	Shale.
Skalie	2	5	—		Shale.
Glanskool met skalie		3	—		**Coal,** bright, with shale.
Sandsteen	2	9	326	4	Sandstone.
Skalie, sanderig		6	326	10	Shale, sandy.
Glanskool		6	—		**Coal,** bright.
Skalie	1	8	—		Shale.
Steenkool, gemengde, en skalie	1	9	—		**Coal,** mixed, and shale.
Skalie		3	—		Shale.
Steenkool, gemengde, en skalie		7	—		**Coal,** mixed, and shale.
Skalie met baie min **steenkool**		9	—		Shale with very little **coal.**
Steenkool, dof, korrelrig, met skaliestrepe	3	10	—		**Coal,** dull, granular, with sha bands.
Skalie en **glanskool**		6	—		Shale and bright **coal.**
Glanskool en skalie; 20 % skalie		7	337	3	**Coal,** bright, and shale; 20 shale.
Skalie	13	9	351	0	Shale.

BOORGAT 30 : WITKOPJE 658 : BOREHOLE 30.

Bg. 30 (*Verv.*) B.H. 30 (*Contd.*)

No. van monster B.-N.-I. F.R.I. ample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
60	—	—	93 9	—
	Steenkool, glansend, baie skaliestrepe, **N.G.**	4	—	**Coal,** bright, many shale streaks, **N.S.**
F	**Steenkool,** glansend, met skaliestrepe, gevlek deur water.	13	—	**Coal,** bright, with shale streaks, waterstained.
	N.G.	48	—	**N.S.**
	Skalie en **glanskool ;** 80 % skalie, **N.G.**	9	—	Shale and bright **coal ;** 80 % shale, **N.S.**
E	**Glanskool** met skaliestrepe, gevlek deur water	15	—	**Coal,** bright, with shale streaks, waterstained.
	Skalie, **N.G.**	6	—	Shale, **N.S.**
D	**Glanskool** met skaliestrepe, piriethoudend.	7	—	**Coal,** bright, with shale streaks, very pyritic,
	N.G.	26	—	**N.S.**
C	**Glanskool** en skalie ; 20 % skalie	6	—	**Coal,** bright, and shale ; 20 % shale.
	Skalie, **N.G.**	8	—	Shale, **N.S.**
B	**Glanskool** en skalie ; 30 % skalie	11	—	**Coal,** bright, and shale ; 30 % shale.
	Skalie met enkele **glanskoolstrepies, N.G.**	6	—	Shale with occasional streaks of bright **coal, N.S.**
A	**Glanskool** en skalie ; 50 % skalie	8	107 9	**Coal,** bright, and shale ; 50 % shale.
61 M	—	—	110 4	—
	Glanskool en skalie, met baie piriet ; 30 % skalie	9	—	**Coal,** bright, and shale ; very pyritic ; 30 % shale.
	N.G.	3	—	**N.S.**
	Skalie.	3	—	Shale.
L	**Glanskool** en skalie ; 50 % skalie	9	—	**Coal,** bright, and shale ; 50 % shale.
	N.G.	6	—	**N.S.**
	Skalie met enkele **glansskoolstrepies, N.G.**	11	—	Shale with occasional streaks of bright **coal, N.S.**
K	**Steenkool** en skalie ; 75 % skalie	8	—	**Coal** and shale ; 75 % shale.
	Skalie en **glanskool, N.G.**	5	—	Shale and bright **coal, N.S.**
J	**Glanskool** en skalie; 40 % skalie	5	—	**Coal,** bright, and shale ; 40 % shale.
	N.G.	45	—	**N.S.**
	Skalie met enkele **glanskoolstrepies, N.G.**	3	—	Shale with occasional streaks of bright **coal, N.S.**
H	**Glanskool** en skalie ; 50 % skalie	12	—	**Coal,** bright, and shale ; 50 % shale.
	N.G.	42	—	**N.S.**
G	**Glanskool** en skalie ; 50 % skalie	8	—	**Coal,** bright, and shale ; 50 % shale.
	Skalie met **glanskoolstrepies, N.G.**	15	—	Shale with streaks of bright **coal, N.S.**
F	**Glanskool** en skalie ; 60 % skalie	12	—	**Coal,** bright, and shale ; 60 % shale.
	Skalie met **glanskoolstrepies, N.G.**	14	—	Shale with streaks of bright **coal, N.S.**

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
E	**Glanskool** en skalie ; 60 % skalie	6	—	**Coal,** bright, and shale ; 60 % shale.
	Skalie met **glanskool-strepies, N.G.**	31	—	Shale with streaks of bright **coal, N.S.**
D	**Glanskool** met skalie, kalsiethoudend	13	—	**Coal,** bright, with shale, calcitic.
	Skalie en **glanskool, N.G.**	9	—	Shale and bright **coal, N.S.**
C	**Glanskool** en skalie; 40 % skalie	6	—	**Coal,** bright, and shale ; 40 % shale.
	Skalie met **glanskool-strepies**	11	—	Shale with streaks of bright **coal.**
B	**Glanskool** en skalie; 50 % skalie	10	—	**Coal,** bright, and shale ; 50 % shale.
	Skalie, **N.G.**	6	—	Shale, **N.S.**
A	**Glanskool** met skalie .	29	139 7	**Coal,** bright, with shale.
N 62	—	—	139 7	—
C	**Glanskool** en skalie; 10 % shale	4	—	**Coal,** bright, and shale ; 10 % shale.
	Skalie met **glanskool-strepies**	2	—	Shale with streaks of bright **coal, N.S.**
	Glanskool en skalie ; 10 % skalie	2	—	**Coal,** bright, and shale ; 10 % shale.
	Skalie, **N.G.**	4	—	Shale, **N.S.**
B	**Glanskool**	24	—	**Coal,** bright, with shale.
	Skalie met **glanskool-strepies, N.G.**	3	—	Shale with streaks of bright **coal, N.S.**
A	**Glanskool** met skalie .	20	144 6	**Coal,** bright, with shale.
N 63	—	—	158 10	—
C	**Glanskool** en skalie ; 10 % skalie	14	—	**Coal,** bright, and shale ; 10 % shale.
	Skalie, **N.G.**	33	—	Shale, **N.S.**
B	**Steenkool,** glansend korrelrig, met klein sandsteenstrepies	19	—	**Coal,** bright granular, with small sandstone streaks.
	Skalie, **N.G.**	95	—	Shale, **N.S.**
A	**Glanskool** met skalie, piriethoudend	7	—	**Coal,** bright, with shale, pyritic.
	Skalie, **N.G.**	1½	—	Shale, **N.S.**
	Glanskool met skalie, piriethoudend	6½	173 6	**Coal,** bright, with shale, pyritic.
N 64	—	—	176 5	—
D	**Glanskool** en skalie ; 50 % skalie	7	—	**Coal,** bright, and shale ; 50 % shale.
	Skalie met **steenkool-strepe, N.G.**	2	—	Shale with **coal** streaks, **N.S.**
	Glanskool en skalie ; 50 % skalie	14	—	**Coal,** bright, and shale ; 50 % shale.
	Skalie met **steenkool-strepe, N.G.**	2	—	Shale with **coal** streaks, **N.S.**
	Glanskool en skalie ; 50 % skalie	4	—	**Coal,** bright, and shale ; 50 % shale.
	N.G.	38	—	**N.S.**

No. van monster B.-N.-I. F.R.I. ample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
C	**Glanskool** en skalie; 30 % skalie	9	—	**Coal,** bright, and shale; 30 % shale.
	N.G...................	34	—	**N.S.**
B	**Glanskool** met skaliestrepe	2	—	**Coal,** bright, with shale streaks.
	Skalie met **glanskoolstrepies**	1	—	Shale with streaks of bright **coal.**
	Glanskool en skalie; 40 % skalie	7	—	**Coal,** bright, and shale; 40 % shale.
	Skalie met enkele **steenkoolstrepe**	2	—	Shale with occasional **coal** streaks.
	Glanskool en skalie; 40 % skalie	4	—	**Coal,** bright, and shale; 40 % shale.
	Skalie, **N.G.**..........	13	—	Shale, **N.S.**
A	**Glanskool** met skalie**strepe**	37	191 3	**Coal,** bright, with shale streaks.
65	—	—	200 6	—
	Glanskool en skalie, pieriethoudend; 10 % skalie	14	—	**Coal,** bright, and shale, pyritic; 10 % shale.
	Skalie met **steenkoolstrepe, N.G.**	4	—	Shale with **coal** streaks, **N.S.**
	Glanskool, en skalie, piriethoudend; 10 % skalie	14	203 2	**Coal,** bright, and shale, pyritic; 10 % shale.
66	—	—	217 4	—
B	**Glanskool** en skalie; 20 % skalie	20	—	**Coal,** bright and shale; 20 % shale.
	N.G...................	28	—	**N.S.**
A	**Glanskool** en skalie; 20 skalie	8	222 0	**Coal,** bright, and shale; 20 % shale.
67	—	—	237 11	—
B	**Glanskool** en skalie, piriethoudend, 20 % skalie	7	—	**Coal,** bright, and shale, pyritic, 20 % shale.
	N.G...................	56	—	**N.S.**
A	**Glanskool** met skaliestrepe	12	244 2	**Coal,** bright, with shale streaks.
68	—	—	248 4	—
B	**Glanskool** en skalie; 50 % skalie	10	—	**Coal,** bright, and shale; 50 % shale.
	N.G...................	32	—	**N.S.**
A	**Steenkool,** skalieagtig, en skalie; afwisselende lagies; 30 % skalie	21	253 7	**Coal,** shaly, and shale; alternating bands; 30 % shale.
69	—	—	266 8	—
	Skalie met **steenkoollagise, N.G.**	12	—	Shale with **coal** bands, **N.S.**
G	**Glanskool** en skalie; 50 % skalie	8	—	**Coal,** bright, and shale; 50 % shale.
	Skalie, **N.G.**..........	5	—	Shale, **N.S.**
	Glanskool en skalie, **N.G.**	7	—	**Coal,** bright, and shale, **N.S.**

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
F	**Glanskool** en skalie; 20 % skalie	11	—	**Coal,** bright, and shale 20 % shale.
	N.G.	62	—	**N.S.**
E	**Glanskool** en skalie; 50 % skalie	9	—	**Coal,** bright, and shale 50 % shale.
	N.G.	40	—	**N.S.**
D	**Glanskool** en skalie...	4	—	**Coal,** bright, and shal
	Skalie en **glanskool**; 80 % skalie, **N.G.**	4	—	Shale and bright coa 80 % shale, **N.S.**
	Glanskool en skalie...	10	—	**Coal,** bright, and shal
	Skalie, **N.G.**	11	—	Shale, **N.S.**
C	**Glanskool** en skalie met een 1″ en een 3″ lagie skalie uitgesluit	15	—	**Coal,** bright, and sha with one 1″ and or 3″ band of sha excluded.
	N.G.	62	—	**N.S.**
B	**Glanskool**	7	—	**Coal,** bright.
	N.G.	64	—	**N.S.**
A	**Glanskool** en skalie...	10	295 5	**Coal,** bright, and shal
N 70	—	—	298 0	—
	Skalie, **N.G.**	3	—	Shale, **N.S.**
E	**Glanskool**	7	—	**Coal,** bright.
	Skalie, **N.G.**	3	—	Shale, **N.S.**
	Glanskool	5	—	**Coal,** bright.
	N.G.	127	—	**N.S.**
D	**Glanskool**	5	—	**Coal,** bright.
	Skalie	4	—	Shale.
	Glanskool	2	—	**Coal,** bright.
	Skalie met min **steenkool, N.G.**	23	—	Shale with little **coa** **N.S.**
C	**Glanskool,** pieriethoudend	6	—	**Coal,** bright, pyritic.
	Skalie, **N.G.**	10	—	Shale, **N.S.**
B	**Glanskool** met 'n 3″ skalielagie 2″ van onder uitgesluit	11	—	**Coal,** bright, with an shale band 2″ fro bottom excluded.
	N.G.	46	—	**N.S.**
A	**Glanskool**	5	—	**Coal,** bright.
	Skalie, **N.G.**	8	320 1	Shale, **N.S.**
N 71	—	—	326 10	—
D	**Glanskool**	6	—	**Coal,** bright.
	Skalie, **N.G.**	20	—	Shale, **N.S.**
C	**Steenkool,** gemeng, met skaliestrepe	21	—	**Coal,** mixed, with sha streaks.
	Skalie, **N.G.**	3	—	Shale, **N.S.**
	Steenkool, gemeng, met skaliestrepe	7	—	**Coal,** mixed, with sha streaks.
	Skalie met baie min **steenkool**	9	—	Shale with very littl **coal, N.S.**
B	**Steenkool,** dof, korrelrig, met skaliestrepe	46	—	**Coal,** dull, granula with shale streaks.
	Skalie en **glanskool, N.G.**	6	—	Shale and bright **coa** **N.S.**
A	**Glanskool** en skalie; 20 % skalie	7	337 3	**Coal,** bright, and shale 20 % shale.

KORTANALISES—PROXIMATE ANALYSES.

Nommer. van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No. Fl. 1·6.
N 60 F	13	10·63	4·0	19·7	34·7	41·6	57·7	7·2	77·6	11·4	1	1
E	15	11·1	4·3	17·1	34·4	44·2	64·5	7·0	81·6	11·0	1	1
D	7	—	4·1	20·9	33·4	41·6	55·8	7·0	74·9	11·4	1	1
C	6	—	4·2	24·1	30·7	41·0	44·6	6·8	65·6	10·6	1	1f
B	11	—	4·0	26·9	29·8	39·3	33·7	7·8	63·4	14·5	1	1f
A	8	—	4·0	30·7	28·0	37·3	35·1	6·9	54·4	12·2	1	1f
N 61 M	9	—	3·9	23·5	31·4	41·2	49·6	6·5	69·8	10·7	1	1
L	9	—	4·1	22·8	31·4	41·7	50·7	5·2	68·8	9·6	1	1
K	8	—	3·9	25·4	30·8	39·9	45·7	5·8	67·2	12·0	1f	1f
J	5	—	3·8	22·4	31·5	42·3	45·5	7·0	72·2	13·2	1	1
H	12	—	3·9	26·7	29·1	40·3	44·1	6·3	63·2	11·1	1	1f
G	8	—	4·1	21·4	32·3	42·2	53·2	7·2	73·7	11·3	1	1
F	12	—	3·9	25·7	30·1	40·3	40·4	6·8	65·8	11·0	1	1
E	16	—	4·3	21·3	32·1	42·3	49·9	5·1	69·2	8·9	1	1
D	13	10·9	4·2	17·0	33·7	45·1	62·9	6·4	81·8	9·2	1	1
C	6	—	3·9	24·9	31·0	40·2	44·5	8·0	67·6	13·4	1	1
B	10	—	3·6	24·0	31·7	40·7	49·2	7·8	68·3	12·1	1	1
A	29	11·1	4·1	17·7	33·2	45·0	63·6	7·5	80·9	11·3	1	1
N 62 C	6	—	4·5	22·5	30·9	42·1	48·8	6·5	79·2	15·2	1	1f
B	24	11·27	4·6	16·4	33·8	45·2	63·9	6·6	84·1	10·4	1	1
A	20	10·6	4·4	20·7	32·1	42·8	52·2	7·2	76·8	11·4	1	1
N 63 C	14	10·7	4·6	19·7	32·5	43·2	49·5	7·6	79·4	13·1	1	1
B	19	—	4·6	22·2	34·2	39·0	39·7	7·7	70·2	11·4	1	1
A	13½	—	4·2	22·0	32·3	41·5	48·1	7·6	74·6	12·6	1	1
N 64 D	25	—	3·9	27·1	30·3	38·7	28·4	7·3	63·5	12·9	1	1
C	9	—	4·1	25·4	30·3	40·2	42·5	7·5	67·3	12·5	1	1
B	13	—	3·9	26·0	30·0	40·1	44·1	7·8	69·5	13·1	1	1
A	37	—	4·1	22·0	35·1	38·8	31·1	5·9	69·0	9·5	1	1

BOORGAT 30 : WITKOPJE 658 : BOREHOLE 30.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
N 65	28	—	4·1	23·0	32·4	40·5	41·7	6·3	70·7	11·0	1	1
N 66 B	20	—	3·8	24·0	34·6	37·6	44·1	6·3	67·2	9·3	1	1
A	8	—	3·7	29·1	35·0	32·2	25·5	4·7	46·5	7·8	1	1
N 67 B	7	—	3·4	27·8	29·4	39·4	37·9	6·5	58·4	10·9	1	1f
A	12	—	3·3	26·9	35·4	34·4	43·9	4·0	54·6	6·8	1	1
N 68 B	10	—	3·9	21·1	30·7	44·3	44·2	5·9	75·8	11·9	1	1f
A	21	—	3·6	22·7	32·9	40·8	39·9	6·3	66·5	9·1	1	1
N 69 G	8	—	3·7	19·9	32·0	44·4	34·9	6·6	76·2	11·3	1	1
F	11	—	3·5	22·3	33·5	40·7	55·9	7·4	71·8	10·2	1	1
E	9	—	4·0	21·6	31·1	43·3	57·4	5·6	68·5	8·0	1	1
D	14	12·3	3·8	10·4	37·5	48·3	86·3	5·5	89·6	6·4	1½	1
C	15	11·3	3·6	16·7	33·6	46·1	71·8	6·7	80·8	8·8	1	1
B	7	12·2	4·0	10·7	36·8	48·5	88·8	5·9	90·7	6·5	1	1
A	10	11·7	4·1	13·8	34·7	47·5	81·1	6·6	85·6	7·8	1	1
N 70 E	12	11·0	3·8	18·8	32·4	45·0	62·5	7·7	81·7	11·8	1f	1
D	7	11·9	3·9	13·1	34·2	48·8	77·2	6·3	93·4	10·6	1	1
C	6	11·9	4·1	12·4	35·8	47·7	83·3	4·1	84·8	4·4	1	1f
B	8	11·9	3·9	12·5	34·6	49·0	78·7	5·5	86·5	6·7	1f	—
A	5	11·5	4·2	14·3	33·9	47·6	73·4	6·1	85·3	7·7	1f	—
N 71 D	6	12·3	3·7	10·6	36·8	48·9	86·3	4·4	88·4	4·8	1	1
C	28	—	3·2	28·4	29·1	39·3	40·9	5·7	45·0	9·3	1f	—
B	46	—	3·4	31·8	22·0	42·8	5·6	7·4	25·7	12·4	1f	—
A	7	—	3·1	19·8	33·7	43·4	42·0	6·2	69·9	7·3	1f	—

BOORGAT 31 : PRETORIA 687 : BOREHOLE 31.

Kern ⅞ dm. Core ⅞ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
rond....................	10	0	10	0	Soil.
aterberg-sandsteen, bruin.	128	6	138	6	Waterberg sandstone, brown.
oddersteen, rooibruin.....		6	139	0	Mudstone, reddish brown.
aterberg-sandsteen, bruin.	102	0	241	0	Waterberg sandstone, brown.

BOORGAT 32 : WITWATER 324 : BOREHOLE 32.

Kern ⅞ dm. Core ⅞ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
ond.....................	16	0	16	0	Soil.
ndsteen, fynkorrelrig, kleiïg, verweerd	24	0	40	0	Sandsteen, fine-grained, argillaceous, weathered.
ndsteen, baie fynkorrelrig, kleiïg, rooi en mergel	271	0	311	0	Sandstone, very fine-grained, argillaceous, red ; and marl.
ndsteen, grofkorrelrig....	26	0	337	0	Sandstone, coarse-grained.

BOORGAT 33 : VERLOREN VALEY 541 : BOREHOLE 33.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
ond.....................	3	0	3	0	Soil.
ddersteen...............	82	3	85	3	Mudstone.
alie....................		2	85	5	Shale.
anskool, met skaliedele en piriet	1	3	86	8	**Coal,** bright, with shale portions and pyrites.
alie, grys...............		6	—		Shale, grey.
anskool, met skaliedele, piriet en kalsiethoudend, met 'n ½" skalielaag aan onder-ent		9	87	11	**Coal,** bright, with shale portions, pyritic and calcitic, with a ½" shale band at bottom.
alie, grys...............	3	5	—		Shale, grey.
nskool en skalie ; 20 % kalie	2	7	93	11	**Coal,** bright, and shale ; 20% shale.
alie met **steenkoollae**....	9	11	—		Shale with **coal** bands.
alie.....................		6	—		Shale.
alie en **glanskool ;** 80 % kalie		8	—		Shale and bright **coal ;** 80 % shale.
nskool en skalie........	1	0	106	0	**Coal,** bright, and shale.
alie.....................	1	2	—		Shale.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
Glanskool en skalie; 20 % skalie		7	107	9	**Coal,** bright, and shale; 20 shale.
Skalie	1	1	—		Shale.
Glanskool en skalie; 30 % skalie		7	109	5	**Coal,** bright, and shale; 30 shale.
Skalie		4	—		Shale.
Glanskool en skalie; 30 % skalie	1	8	111	5	**Coal,** bright, and shale; 30 shale.
Skalie met **glanskoolstrepies**		10	—		Shale, with streaks of brig **coal.**
Glanskool en skalie, piriethoudend; 50 % skalie		10	113	1	**Coal,** bright, and shale, pyriti 50 % shale.
Skalie		10	—		Shale.
Glanskool en skalie; 30 % skalie		10	114	9	**Coal,** bright, and shale; 30 shale.
Skalie met **glanskoolstrepies**	1	7	—		Shale, with streaks of brig **coal.**
Glanskool en skalie; 10 % skalie		10	117	2	**Coal,** bright, and shale; 10 shale.
Skalie met **glanskoolstrepies**	1	7	—		Shale, with streaks of brig **coal.**
Glanskool en skalie; 50 % skalie		8	119	5	**Coal,** bright, and shale; 50 shale.
Skalie, met **glanskoolstrepies**	1	6	—		Shale, with streaks of brig **coal.**
Glanskool en skalie met baie kalsiet; 50 % skalie		3	121	2	**Coal,** bright, and shale, ve calcitic; 50 % shale.
Skalie met **glanskoolstrepies**		9	—		Shale, with streaks of brig **coal.**
Glanskool en skalie; 50 % skalie		2	122	1	**Coal,** bright, and shale; 50 shale.
Skalie met **glanskoolstrepies**		2	—		Shale, with streaks of brig **coal.**
Glanskool en skalie; 10 % skalie		11	123	2	**Coal,** bright, and shale; 10 shale.
Glanskool en skalie, kalsiethoudend; 50 % skalie	1	7	124	9	**Coal,** bright, and shale, calcit 50 % shale.
Skalie		3	—		Shale.
Glanskool en skalie; 10 % skalie		11	125	11	**Coal,** bright, and shale; 10 shale.
Skalie	2	1	—		Shale.
Glanskool en skalie; 10 % skalie	1	10	129	10	**Coal,** bright, and shale; 10 shale.
Skalie		3	—		Shale.
Glanskool en skalie; 10 % skalie	1	3	131	4	**Coal,** bright, and shale; 10 shale.
Skalie		4	—		Shale.
Glanskool en skalie; 10 % skalie		4	132	0	**Coal,** bright, and shale; 10 shale.
Skalie		4	—		Shale.
Glanskool en skalie; 10 % skalie	1	2	133	6	**Coal,** bright, and shale; 10 shale.
Skalie met **glanskoolstrepies**		7	—		Shale with streaks of bri **coal.**
Glanskool en skalie; 20 % skalie		1	134	2	**Coal,** bright, and shale; 20 shale.
Skalie		2	—		Shale.
Glanskool en skalie; 10 % skalie	1	4	135	8	**Coal,** bright, and shale; 10 shale.
Skalie		5	—		Shale.
Glanskool en skalie; 10 % skalie	1	2	137	3	**Coal,** bright, and shale; 10 shale.

Bg. 33 (*Verv.*) B.H. 33 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
alie, met **steenkoolbande**.	9	3	146	6	Shale, with **coal** bands.
nskool en skalie; 30 % kalie	1	2	147	8	**Coal,** bright, and shale; 30 % shale.
alie....................		9	—		Shale.
nskool en skalie; 20 % kalie	1	4	149	9	**Coal,** bright, and shale; 20 % shale.
alie met **steenkoollae**....	2	9	—		Shale, with **coal** bands.
nskool, met skaliedele...	2	6	155	0	**Coal,** bright, with shale portions.
nskool, met skaliedele, aie piriet, en modder- lontjies	2	0	157	0	**Coal,** bright, with shale portions, very pyritic, with clay pellets.
alie....................	2	10	—		Shale.
enkool, skalieagtig......		5	—		**Coal,** shaly.
alie....................		4	—		Shale.
enkool, skalieagtig......		5	—		**Coal,** shaly.
alie, met **steenkoolstrepies**	3	5	164	5	Shale, with **coal** streaks.
nskool en skalie; 20 % kalie		7	165	0	**Coal,** bright, and shale; 20 % shale.
lie....................		9	—		Shale.
nskool en skalie; 10 % kalie		9	166	6	**Coal,** bright, and shale; 10 % shale.
lie, met **glanskoolstrepies**		10	—		Shale, with streaks of bright **coal.**
nskool en skalie; 20 % kalie		4	167	8	**Coal,** bright, and shale; 20 % shale.
lie met **glanskoolstrepies**	2	0	169	8	Shale, with streaks of bright **coal.**
nskool en skalie; 20 % kalie	2	0	171	8	**Coal,** bright, and shale; 20 % shale.
ie....................		9	—		Shale.
nskool en skalie........		5	—		**Coal,** bright, and shale.
lie, met 2 × 1″ **glans- oollagies**	2	4	—		Shale, with 2 × 1″ bands of bright **coal.**
nskool en skalie; 20 % kalie, met modderklont- es en ½″ skalielaag onder- an	1	0	176	2	**Coal,** bright, and shale; 20 % shale, with clay pellets and ½″ shale band at bottom.
lie, met **steenkoolstrepies** n lagies	6	11	183	1	Shale, with coal streaks and **coal** bands.
nskool en skalie; 30 % kalie		6	183	7	**Coal,** bright, and shale; 30 % shale.
lie....................		5	—		Shale.
lie en **glanskool**; 70 % kalie	1	10	—		Shale and bright **coal**; 70 % shale.
nskool en skalie; 20 % kalie		11	186	9	**Coal,** bright, and shale; 20 % shale.
lie....................		10	—		Shale.
nskool en skalie; 20 % kalie, piriethoudend		7	188	2	**Coal,** bright, and shale; 20 % shale, pyritic.
lie, met **glanskoolstrepies**		6	—		Shale with streaks of bright **coal.**
nskool en skalie; 20 % kalie		10	—		**Coal,** bright, and shale; 20 % shale.
lie met **glanskoolstrepies**		4	—		Shale, with streaks of bright **coal.**
nskool en skalie; 20 % kalie		7	191	0	**Coal,** bright, and shale; 20 % shale.
lie, met **steenkoollagies** ″ tot 6″ dik	12	5	—		Shale, with **coal** bands 2″ to 6″ thick.
lie, met **glanskoollagies**.		5	—		Shale, with streaks of bright **coal.**

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Glanskool en skalie ; 10 % skalie	1	1	204	11	**Coal,** bright, and shale ; 10 shale.
Skalie....................		2	—		Shale.
Glanskool en skalie ; 10 % skalie, piriethoudend		5	205	6	**Coal,** bright, and shale ; 10 shale, pyritic.
Skalie, met **steenkoollagies**.	5	9	—		Shale, with **coal** bands.
Glanskool, met skaliedele...		9	212	0	**Coal,** bright, with shale p tions.
Skalie, met **steenkoollagies**.	1	8	—		Shale, with **coal** bands.
Glanskool en skalie ; 60 % skalie		11	214	7	**Coal,** bright, find shale ; 60 shale.
Skalie....................		3	—		Shale.
Glanskool en skalie ; 60 % skalie		7	215	5	**Coal,** bright, and shale ; 60 shale.
Skalie, met 6 **glanskool-** en **dofkoollagies** 1″ tot 6″ dik	7	9	—		Shale, with 6 bands of bri **coal** and dull **coal** 1″ to thick.
Skalie en **glanskool ;** 70 % skalie		10	—		Shale and bright **coal ;** 70 shale.
Skalie met 2 **steenkoollagies**	2	1	—		Shale, with 2 **coal** bands.
Glanskool, met skaliedele, baie fusiet teenwoordig in horisontale vlakke		11	227	0	**Coal,** bright, with shale p tions, much fusain pres in horizontal planes.
Skalie....................		4	—		Shale.
Glanskool, met skalie-dele, baie fusiet teenwoordig in horisontale vlakke		2	227	6	**Coal,** bright, with shale p tions, much fusain pres in horizontal planes.
Skalie, met **steenkoollagies**.	1	9	—		Shale, with **coal** bands.
Skalie....................	1	6	—		Shale.
Skalie, met 3 **steenkoollagies,** 5″ dik	4	8	—		Shale, with 3 **coal** bands, thick.
Glanskool en skalie ; 20 % skalie		7	236	0	**Coal,** bright, and shale ; 2 shale.
Skalie....................		2	—		Shale.
Glanskool en skalie ; 20 % skalie		6	236	8	**Coal,** bright, and shale ; 2 shale.
Skalie, met 5 lae **glanskool** en dowwe **steenkool** van 2″ tot 6″ dik	14	5	—		Shale, with 5 bright **coal** dull **coal** bands from 2′ 6″ thick.
Skalie, met enkele **glanskoolstrepies**	2	11	—		Shale, with occasional stre of bright **coal.**
Glanskool en skalie ; 10 % skalie		6	254	6	**Coal,** bright, and shale ; 1 shale.
Skalie, met 4 **glanskoollagies**	3	0	—		Shale, with 4 bands of br **coal.**
Glanskool, kalsiethoudend..		3	257	9	**Coal,** bright, calcitic.
Skalie....................	1	5	—		Shale.
Glanskool en skalie ; 20 % skalie		4	259	6	**Coal,** bright, and shale ; 2 shale.
Skalie....................		2	—		Shale.
Glanskool en skalie ; 20 % skalie		4	—		**Coal,** bright, and shale ; 2 shale.
Skalie, met **glanskoolstrepies**		8	—		Shale, with streaks of br **coal.**
Glanskool en skalie ; 20 % skalie, piriethoudend		8	261	4	**Coal,** bright, and shale ; 2 shale, pyritic.
Skalie en **glanskool ;** 80 % skalie	1	11	—		Shale and bright coal ; 8 shale.
Glanskool met skaliedele...		7	—		**Coal,** bright, with shale tions.
Skalie....................		6	264	8	Shale.
Skalie met **steenkoollae**....	4	6	—		Shale, with **coal** bands.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
anskool, kalsiethoudend..	1	0	270	2	**Coal,** bright, calcitic.
alie....................		2	—		Shale.
anskool.................		3	270	7	**Coal,** bright.
alie....................	3	2	—		Shale.
anskool met skaliedele, kalsiethoudend		9	274	6	**Coal,** bright, with shale portions, calcitic.
alie....................	1	0	—		Shale.
anskool, met skaliedele, kalsiethoudend		11	276	5	**Coal,** bright, with shale portions, calcitic.
alie....................	1	0	—		Shale.
anskool en skalie; 10 % skalie		3	277	8	**Coal,** bright, and shale; 10 % shale.
alie....................		3	—		Shale.
anskool en skalie; 20 % skalie; piriethoudend		10	—		**Coal,** bright, and shale; 20 % shale; pyritic.
alie....................		3	—		Shale.
anskool en skalie; 10 % skalie		9	—		**Coal,** bright, and shale; 10 % shale.
alie....................		4	—		Shale.
anskool en skalie; 20 % skalie		2	—		**Coal,** bright, and shale; 20 % shale.
alie....................	1	6½	—		Shale.
anskool en skalie; 10 % skalie		4½	283	1	**Coal,** bright, and shale; 10 % shale.
alie....................		1	—		Shale.
anskool en skalie; 10 % skalie		4	283	6	**Coal,** bright, and shale; 10 % shale.
alie....................		2	—		Shale.
alie, met **steenkoolstrepies**		8	—		Shale, with **coal** streaks.
anskool en skalie; 30 % skalie		5	284	9	**Coal,** bright, and shale; 30 % shale.
alie, met **glanskoolstrepies**	4	10	—		Shale, with streaks of bright **coal.**
alie en **glanskool;** 60 % skalie		6	—		Shale and bright **coal;** 60 % shale.
alie....................	1	10	—		Shale.
anskool en skalie; 10 % kalie		7	292	6	**Coal,** bright, and shale; 10 % shale.
alie en dowwe, skalieagtige **teenkool**	12	10	—		Shale and dull shaly **coal.**
enkool, dof, skalieagtig..		7	305	11	**Coal,** dull, shaly.
alie....................	1	2	—		Shale.
nskool, met skaliedele, iriethoudend		9	307	10	**Coal,** bright, with shale portions, pyritic.
enkool, dof, skalieagtig..	1	11	309	9	**Coal,** dull, shaly.
nskool.................		1	—		**Coal,** bright.
alie, met **steenkoolstrepies**		4	—		Shale, with **coal** streaks.
alie, grys...............	1	5	—		Shale, grey.
alie en skalieagtige dowwe **teenkool**	2	9	—		Shale and shaly dull **coal.**
nskool, met enkele skalie- gtige lagies dowwe **steen- ool**	1	2	315	6	**Coal,** with a few shaly dull **coal** bands.
enkool, dof, skalieagtig..		11	—		**Coal,** dull, shaly.
enkool, dof, skalieagtig..	3	3	319	8	**Coal,** dull, shaly.
enkool, dof, skalieagtig, net 'n paar **glanskoollagies** n middel	2	5	322	1	**Coal,** shaly, with a few streaks of bright **coal** in middle.
enkool, gemengd, met kaliedele en ½" skalielaag " van bo af	1	2	323	3	**Coal,** mixed, with shale portions and ½" shale band 2" from top.
lie, **steenkoollagtig**......	3	1	—		Shale, **coaly.**

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie, met 1″ skalieagtige **steenkool**	3	11	—		Shale, with 1″ shaly **coal.**
Skalie, **steenkoolagtig,** en skalie	6	0	—		Shale, **coaly,** and shale.
Steenkool, dof, skalieagtig..	1	3	—		**Coal,** dull, shaly.
Glanskool en dowwe **steenkool** oorwegend, met skaliedele		6	338	0	**Coal,** bright, and dull main bright **coal,** with shale po tions.
Skalie....................		5	—		Shale.
Steenkool, dof, skalieagtig..	1	3	339	8	**Coal,** dull, shaly.
Skalie....................	1	3	—		Shale.
Steenkool, dof, skalieagtig..		4	—		**Coal,** dull, shaly.
Steenkool, dof, skalieagtig, met enkele **glanskoollagies** naby onder-ent	1	3	342	6	**Coal,** dull, shaly, with a fe bands of bright **coal** ne bottom.
Skalie....................		9	—		Shale.
Steenkool, dof, skalieagtig, met 'n ½″ pirietlaag in middel	2	2	345	5	**Coal,** dull, shaly, with a band of pyrites in middle
Steenkool, gemeng, piriethoudend		4	—		**Coal,** mixed, pyritic.
Skalie en skalieagtige **steenkool**	7	0	352	9	Shale and shaly **coal.**
Skalie....................	4	0	356	9	Shale.
Steenkool, dof, skalieagtig	1	2	357	11	**Coal,** dull, shaly.
Skalie....................	4	0	—		Shale.
Steenkool, dof, baie skalieagtig		10	—		**Coal,** dull, very shaly.
Steenkool, dof, skalieagtig, met 2 × ½″ pirietlagies	1	6	364	3	**Coal,** dull, shaly, with 2 × bands of pyrites.
Skalie en skalieagtige, dowwe **steenkool**	2	3	—		Shale and shaly dull **coal.**
Steenkool, dof, met 'n 5″ laag gemengde **steenkool** 12″ van onder af	4	0	370	6	**Coal,** dull, with a 5″ band mixed **coal** 12″ from botto
Skalie....................		5	—		Shale.
Steenkool, dof............		9	371	8	**Coal,** dull.
Skalie....................		3	—		Shale.
Steenkool, dof, met 2″ gemengde **steenkool** by onder-ent	2	1	374	0	**Coal,** dull, with 2″ mixed c at bottom.
Sandsteen, grysblou, mikadraend, fynkorrelrig	3	0	—		Sandstone, greyish blue, mi ceous, fine-grained.
Sandsteen, grysagtig, mikadraend, fynkorrelrig	15	2	—		Sandstone, greyish, mi ceous, fine-grained.
Sandsteen, wit, veldspaties, middelkorrelrig	3	9	—		Sandstone, white, feldspath medium-grained.
Sandsteen, swart, middelkorrelrig		1	—		Sandstone, black, mediu grained.
Sandsteen, wit grys, veldspaties, grofkorrelrig	23	0	—		Sandstone, white-grey, fel pathic, coarse-grained.
Skalie en **steenkoolagtige** skalie, met enkele **glanskoolstrepies**	5	0	—		Shale and **coaly** shale, with few streaks of bright **coal**
Skalie, swart, en sanderige skalie, met **steenkoollagies**	1	11	—		Shale, black, and sandy sh with **coal** bands.
Sandsteen, vuilgrys, middelkorrelrig		7	—		Sandstone, dirty grey, mediu grained.
Sandsteen, vuilgrys, grofkorrelrig	1	0	—		Sandstone, dirty grey, coa grained.
Sandsteen, vuilgrys, grofkorrelrig, met 'n ¼″ **steenkoollagie**	1	6	—		Sandstone, dirty-grey, coa grained, with a ¼″ **coal** ba

Bg. 33 (*Verv.*) B.H. 33 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
ndsteen, grysswart, fynkorrelrig, met 2 × ½" **steenkoollagies**	7 0	—	Sandstone, greyish black, fine-grained, with 2 × ½" **coal** bands.
ndsteen, grys tot wit, fyn- tot grofkorrelrig, met 'n 9" en 3" skalielaag naby onder-ent	12 0	448 0	Sandstone, grey to white, fine-grained to coarse-grained, with a 9" and 3" shale band near bottom.
alie, **steenkoolagtig,** met 2" lagies gemengde **steenkool**	8 1	456 1	Shale, **coaly,** with 2" bands of mixed **coal.**
enkool, dof, skalieagtig, met enkele **glanskoolstrepies**	8	456 9	**Coal,** dull, shaly, with a few streaks of bright **coal.**
enkool, dof, skalieagtig, baie bros	9	457 6	**Coal,** dull, shaly, very brittle.
alie	2	—	Shale.
enkool, gemeng, met skaliedele	11	458 7	**Coal,** mixed, with shale portions.
enkool, dof, skalieagtig, met 6" in middel wat moddersteen bevat	3 6	462 1	**Coal,** dull, shaly, with 6" in middle containing mudstone.
nskool, met baie min skalie	6	462 7	**Coal,** bright, with very little shale.
enkool, dof, baie skalieagtig	2 0	—	**Coal,** dull, very shaly.
enkool, gemeng met skaliedele, piriethoudend	1 5	466 0	**Coal,** mixed, with shale portions, pyritic.
lie, piriethoudend, met enkele **glanskoolstrepies**	6	466 6	Shale, pyritic, with a few streaks of bright **coal.**
lie, sanderig	11 11	478 5	Shale, sandy.
dsteen, grofkorrelrig	5 9	—	Sandstone, coarse-grained.
lie, sanderig en skalieagtige sandsteen	2 5	—	Shale, sandy and shaly sandstone.
dsteen, grofkorrelrig	25 5	512 0	Sandstone, coarse-grained.

Bg. 33 (*Verv.*) B.H. 33 (*Contd.*)

o. van onster .-N.-I. .R.I. nple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
36	**N.G.**	2	85 5	**N.S.**
C	**Glanskool,** met skaliedele en piriet	15	86 8	**Coal,** bright, with shale portions, pyritic.
	N.G.	6	—	**N.S.**
B	**Glanskool,** met skaliedele, piriet- en kalsiethoudend, met 'n ½" skalielaag aan onderent uitgesluit	9	87 11	**Coal,** bright, with shale portions, pyritic and calcitic, with a ½" shale band at bottom excluded.
	N.G.	41	—	**N.S.**
A	**Glanskool** en skalie; 20 % skalie	31	93 11	**Coal,** bright, and shale; 20 % shale.

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
N 137 K	**Glanskool** en skalie...	12	106 0	**Coal,** bright, and sh
	N.G..................	14		**N.S.**
	Glanskool en skalie; 20 % skalie	7	107 9	**Coal,** bright, and sha 20 % shale.
	N.G..................	13	—	**N.S.**
J	**Glanskool** en skalie; 30 % skalie	7	109 5	**Coal,** bright, and sha 30 % shale.
	N.G..................	4	—	**N.S.**
	Glanskool en skalie; 30 % skalie	20	111 5	**Coal,** bright, and sha 30 % shale.
	N.G..................	10	—	**N.S.**
H	**Glanskool** en skalie; piriethoudend; 50 % skalie	10	113 1	**Coal,** bright, and sh pyritic; 50 % sh
	N.G..................	10	—	**N.S.**
	Glanskool en skalie; 30 % skalie	10	114 9	**Coal,** bright, and sh 30 % shale.
	N.G..................	19	—	**N.S.**
G	**Glanskool** en skalie; 10 % skalie	10	117 2	**Coal,** bright, and sh 10 % shale.
	N.G..................	19	—	**N.S.**
F	**Glanskool** en skalie; 50 % skalie	8	119 5	**Coal,** bright, and sh 50 % shale.
	N.G..................	18	—	**N.S.**
	Glanskool en skalie; met baie kalsiet; 50 % skalie	3	121 2	**Coal,** bright, and sh very calcitic; 5 shale.
	N.G..................	9	—	**N.S.**
	Glanskool en skalie; 50 % skalie	2	122 1	**Coal,** bright, and sh 50 % shale.
	N.G..................	2	—	**N.S.**
E	**Glanskool** en skalie; 10 % skalie	11	123 2	**Coal,** bright, and sh 10 % shale.
D	**Glanskool** en skalie, kalsiethoudend; 50% skalie	19	124 9	**Coal,** bright, and s calcitic; 50 % s
	N.G..................	3	—	**N.S.**
C	**Glanskool** en skalie; 10 % skalie	11	125 11	**Coal,** bright, and sh 10 % shale.
	N.G..................	25	—	**N.S.**
B	**Glanskool** en skalie; 10 % skalie	22	129 10	**Coal,** bright, and sh 10 % shale.
	N.G..................	3	—	**N.S.**
	Glanskool en skalie; 10 % skalie	15	131 4	**Coal,** bright, and sh 10 % shale.
	N.G..................	4	—	**N.S.**
	Glanskool en skalie; 10 % skalie	4	132 0	**Coal,** bright, and sh 10 % shale.
	N.G..................	4	—	**N.S.**
A	**Glanskool** en skalie; 10 % skalie	14	133 6	**Coal,** bright, and s 10 % shale.
	N.G..................	7	—	**N.S.**
	Glanskool en skalie; 20 % skalie	1	134 2	**Coal,** bright, and s 20 % shale.
	N.G..................	2	—	**N.S.**
	Glanskool en skalie; 10 % skalie	16	135 8	**Coal,** bright, and s 10 % shale.
	N.G..................	5	—	**N.S.**
	Glanskool en skalie; 10 % skalie	14	137 3	**Coal,** bright, and s 10 % shale.

No. van monster B.-N.-I. F.R.I. mple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
138 D	**Glanskool** en skalie; 30 % skalie	14	147 8	**Coal,** bright, and shale; 30 % shale.
	N.G.	9	—	**N.S.**
C	**Glanskool** en skalie; 20 % skalie	16	149 9	**Coal,** bright, and shale; 20 % shale.
	N.G.	33	—	**N.S.**
B	**Glanskool,** met skaliedele	30	155 0	**Coal,** bright, with shale portions.
A	**Glanskool,** met skaliedele, baie piriet, en modderklontjies	24	157 0	**Coal,** bright, with shale portions, very pyritic, with clay pellets.
139 G	**Glanskool** en skalie; 20 % skalie	7	165 0	**Coal,** bright, and shale; 20 % shale.
	N.G.	9	—	**N.S.**
F	**Glanskool** en skalie; 10 % skalie	9	166 6	**Coal,** bright, and shale; 10 % shale.
	N.G.	10	—	**N.S.**
	Glanskool en skalie; 20 % skalie	4	167 8	**Coal,** bright, and shale; 20 % shale.
	N.G.	24	—	**N.S.**
E	**Glanskool** en skalie; 20 % skalie	24	171 8	**Coal,** bright and shale; 20 % shale.
	N.G.	9	—	**N.S.**
	N.G.	5	—	**N.S.**
	N.G.	28	—	**N.S.**
D	**Glanskool** en skalie; 20 % skalie, met modderklontjies en ½″ skalielaag onderaan uitgesluit	12	176 2	**Coal,** bright, and shale; 20 % shale, with clay pellets and ½″ shale band at bottom, excluded.
	N.G.	83	—	**N.S.**
C	**Glanskool** en skalie; 30 % skalie	6	183 7	**Coal,** bright, and shale; 30 % shale.
	N.G.	5	—	**N.S.**
	N.G.	22	—	**N.S.**
B	**Glanskool** en skalie; 20 % skalie	11	186 9	**Coal,** bright, and shale; 20 % shale.
	N.G.	10	—	**N.S.**
A	**Glanskool** en skalie; 20 % skalie; piriethoudend	7	188 2	**Coal,** bright, and shale; 20 % shale; pyritic.
	N.G.	6	—	**N.S.**
	Glanskool en skalie; 20 % skalie	10	—	**Coal,** bright, and shale; 20 % shale.
A	**N.G.**	4	—	**N.S.**
	Glanskool en skalie; 20 % skalie	7	191 0	**Coal,** bright, and shale; 20 % shale.
40	**Glanskool** en skalie; 10 % skalie	13	204 11	**Coal,** bright, and shale; 10 % shale.
C	**N.G.**	2	—	**N.S.**
	Glanskool en skalie; 10 % skalie, piriethoudend	5	205 6	**Coal,** bright, and shale; 10 % shale, pyritic.
	N.G.	69	—	**N.S.**
B	**Glanskool** met skaliedele	9	212 0	**Coal,** bright, with shale portions.
	N.G.	20	—	**N.S.**

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
A	**Glanskool** en skalie; 60 % skalie	11	214 7	**Coal,** bright, and shal 60 % shale.
	N.G.	3	—	**N.S.**
	Glanskool en skalie; 60 % skalie	7	215 5	**Coal,** bright, and shal 60 % shale.
N 141 B	**Glanskool** met skaliedele, baie fusiet teenwoordig in horisontale vlakke	11	227 0	**Coal,** bright, with sh portions, much fus present in horison planes.
	N.G.	4	—	**N.S.**
	Glanskool, met skaliedele, baie fusiet teenwoordig in horisontale vlakke	2	227 6	**Coal,** bright, with sh portions, much fus present in horison planes.
	N.G.	21	—	**N.S.**
	N.G.	18	—	**N.S.**
	N.G.	56	—	**N.S.**
	Glanskool en skalie; 20 % skalie	7	236 0	**Coal,** bright, and sha 20 % shale.
A	**N.G.**	2	—	**N.S.**
	Glanskool en skalie; 20 % skalie	6	236 8	**Coal,** bright, and sha 20 % shale.
N 142 C	**Glanskool,** en skalie; 10 % skalie	6	254 6	**Coal,** bright, and sha 10 % shale.
	N.G.	36	—	**N.S.**
	Glanskool, kalsiethoudend	3	257 9	**Coal,** bright, calcitic
	N.G.	17	—	**N.S.**
	Glanskool en skalie; 20 % skalie	4	—	**Coal,** bright, and sha 20 % shale.
B	**N.G.**	2	—	**N.S.**
	Glanskool en skalie; 20 % skalie	4	—	**Coal,** bright, and sha 20 % shale.
	N.G.	8	—	**N.S.**
	Glanskool en skalie; piriethoudend	8	—	**Coal,** bright, and sha pyritic.
	N.G.	23	—	**N.S.**
A	**Glanskool,** met skaliedele	7	—	**Coal,** bright, with sl portions.
	N.G.	6	263 8	**N.S.**
N 143	**Glanskool,** kalsiethoudend	12	270 2	**Coal,** bright, calcitic
E	**N.G.**	2	—	**N.S.**
	Glanskool	3	270 7	**Coal,** bright.
	N.G.	38	—	**N.S.**
D	**Glanskool,** met skaliedele, kalsiethoudend	9	274 6	**Coal,** bright, with sl portions, calcitic.
	N.G.	12	—	**N.S.**
C	**Glanskool,** met skaliedele, kalsiethoudend	11	276 5	**Coal,** bright, with sl portions, calcitic.
	N.G.	12	—	**N.S.**

No. van monster B.-N.-I. F.R.I. ample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
	Glanskool en skalie ; 10 % skalie	3	277 8	**Coal,** bright, and shale ; 10 % shale.
	N.G.	3	—	**N.S.**
B	**Glanskool** en skalie ; 20 % skalie ; piriethoudend	10	—	**Coal,** bright, and shale ; 20 % shale ; pyritic.
	N.G.	3	—	**N.S.**
	Glanskool en skalie ; 10 % skalie	9	—	**Coal,** bright, and shale ; 10 % shale.
	N.G.	4	—	**N.S.**
	Glanskool en skalie ; 20 % skalie	2	—	**Coal,** bright, and shale ; 20 % shale.
	N.G.	18½	—	**N.S.**
A	**Glanskool** en skalie ; 10 % skalie	4½	283 1	**Coal,** bright, and shale ; 10 % shale.
	N.G.	1	—	**N.S.**
	Glanskool en skalie ; 10 % skalie	4	283 6	**Coal,** bright, and shale ; 10 % shale.
144 E	**Glanskool** en skalie ; 30 % skalie	5	284 9	**Coal,** bright, and shale ; 30 % shale.
	N.G.	58	—	**N.S.**
	N.G.	6	—	**N.S.**
	N.G.	22	—	**N.S.**
D	**Glanskool** en skalie ; 10 % skalie	7	292 6	**Coal,** bright, and shale ; 10 % shale.
	N.G.	154	—	**N.S.**
C	**Steenkool,** dof, skalieagtig	7	305 11	**Coal,** dull, shaly.
	N.G.	14	—	**N.S.**
B	**Glanskool,** met skaliedele, piriethoudend	9	307 10	**Coal,** bright, with shaly portions, pyritic.
A	**Steenkool,** dof, skalieagtig	23	309 9	**Coal,** dull, shaly.
145 D	**Glanskool,** met enkele skalieagtige lagies dowwe **steenkool**	14	315 6	**Coal,** bright, with occasional bands of dull **coal.**
	N.G.	11	—	**N.S.**
C	**Steenkool,** dof, skalieagtig	39	319 8	**Coal,** dull, shaly.
B	**Steenkool,** dof, skalieagtig, met 'n paar **glanskoollae** in middel	29	322 1	**Coal,** dull, shaly, with a few bright bands in middle.
A	**Steenkool,** gemeng, met skaliedele en ½" skalielaag 2" van bo-af uitgesluit	14	323 3	**Coal,** mixed, with shaly portions and ½" shale band 2" from top excluded.
146 D	**Glanskool** en dowwe **steenkool, glanskool** oorwegend, met skalie dele	6	338 0	**Coal,** bright, and dull **coal,** mainly bright **Coal,** with shale portions.
	N.G.	5	—	**N.S.**
C	**Steenkool,** dof, skalieagtig	15	339 8	**Coal,** dull, shaly.
	N.G.	15	—	**N.S.**
	N.G.	4	—	**N.S.**
B	**Steenkool,** dof, skalieagtig, met enkele **glanskoollagies** naby onderent	15	342 6	**Coal,** dull, shaly, with a few bright bands near bottom.
	N.G.	9	—	**N.S.**

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
A	**Steenkool,** dof, skalie-agtig, met 'n ½″ pirietlaag in middel uitgesluit	26	345 5	**Coal,** dull, shaly, with a ½″ pyrites band in middle excluded.
N 147 C	**Steenkool,** dof, skalie-agtig	14	357 11	**Coal,** dull, shaly.
	N.G.	48	—	**N.S.**
	N.G.	10	—	**N.S.**
B	**Steenkool,** dof, skalie-agtig met 2 × ½″ pirietlagies uitgesluit	18	364 3	**Coal,** dull, shaly, with 2 × ½″ pyrites bands excluded.
	N.G.	27	—	**N.S.**
A	**Steenkool,** dof, met 'n 5″ laag gemengde **steenkool** 12″ van onder af	48	370 6	**Coal,** dull, with a 5″ mixed **coal** band 12″ from bottom.
N 189	**Steenkool,** dof.	9	371 8	**Coal,** dull.
	N.G.	3	—	**N.S.**
	Steenkool, dof, met 2″ gemengde **steenkool** by onderent	25	374 0	**Coal,** dull, with 2″ mixed **coal** at bottom.
N 190 F	**Steenkool,** dof, skalie-agtig, met enkele **glanskoolstrepies**	8	456 9	**Coal,** dull, shaly, with a few streaks of brigh **coal.**
E	**Steenkool,** dof, skalie-agtig, baie bros	9	457 6	**Coal,** dull, shaly, very brittle.
	N.G.	2	—	**N.S.**
D	**Steenkool,** gemeng met skaliedele	11	458 7	**Coal,** mixed, with shale portions.
C	**Steenkool,** dof, skalie-agtig, met 6″ in middel wat moddersteen bevat	42	462 1	**Coal,** dull, shaly, with 6″ in middle containing mudstone.
B	**Glanskool,** met baie min skalie	6	462 7	**Coal,** bright, with very little shale.
	N.G.	24	—	**N.S.**
A	**Steenkool,** gemeng, met baie skaliedele piriethoudend	17	466 0	**Coal,** mixed with shale portions, pyritic.

BOORGAT 33 : VERLOREN VALEY 541 : BOREHOLE 33.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Percentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
N 136 C	15	10·8	3·7	18·9	35·6	41·8	56·7	6·9	79·9	11·7	1½	1
B	8½	—	3·5	22·8	34·4	39·3	42·8	7·8	70·1	12·8	1½	1½
A	31	—	3·6	20·8	34·2	41·4	47·3	7·2	74·8	11·9	1½	1½
N 137 K	19	—	4·1	21·1	33·0	41·8	49·6	5·8	72·8	11·9	1½	1½
J	27	—	4·2	22·9	31·3	41·6	47·1	6·3	69·3	10·6	1½	1
H	20	—	3·7	28·1	29·8	38·4	38·9	7·1	61·5	13·3	1½	1
G	10	—	4·3	22·7	31·3	41·7	45·5	5·9	72·4	11·9	1½	1½
F	13	—	4·0	25·4	30·4	40·2	40·3	6·3	63·9	12·2	1½	1
E	11	11·4	4·2	16·5	34·5	44·8	59·9	7·6	84·5	11·9	2	1½
D	19	—	4·4	23·7	30·7	41·2	49·2	6·5	68·6	12·0	1	1
C	11	11·3	4·9	15·5	33·4	46·2	64·6	5·4	82·3	10·1	1	1
B	41	11·5	3·8	16·2	34·7	45·3	65·2	7·9	86·7	12·4	1½	1½
A	45	11·0	3·8	19·8	33·5	42·9	55·6	8·3	77·8	12·4	1½	1
N 138 D	14	—	3·3	27·0	31·1	38·6	35·4	8·7	66·5	17·0	2	1
C	16	—	3·7	20·2	33·5	42·6	50·8	5·9	75·2	11·7	2	1½
B	30	11·3	3·9	18·3	33·8	44·0	55·0	7·2	85·0	13·6	2½	1½
A	24	—	3·4	30·6	33·8	30·9	12·0	6·9	58·9	12·6	2½	2½
N 139 G	7	—	3·9	23·2	33·2	39·7	41·6	7·8	72·6	14·2	1½	1
F	13	—	4·1	21·8	31·3	42·8	47·1	7·9	75·0	13·1	1½	1½
E	24	—	3·9	25·0	32·4	38·7	41·3	6·6	67·4	12·4	2	1
D	11½	—	3·2	29·0	30·8	37·0	30·5	8·7	62·2	16·6	1½	1
C	6	—	3·1	26·1	30·6	40·2	37·4	6·4	63·0	13·2	1½	1
B	11	—	3·5	20·5	32·9	43·1	49·6	5·9	71·0	9·9	1½	1
A	24	—	3·2	28·5	32·5	35·8	40·8	6·0	58·6	11·2	1	1

BOORGAT 33 : VERLOREN VALEY 541 : BOREHOLE 33.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
N 140 C	18	—	3·5	29·0	35·1	32·4	40·5	5·2	56·5	8·3	2½	1½
B	9	11·0	4·1	17·4	34·9	43·6	47·2	5·2	77·9	8·3	1	1
A	18	—	4·0	21·8	35·2	39·0	56·7	3·7	69·2	6·7	1	1
N 141 B	13	—	3·3	25·3	35·0	36·4	51·5	6·3	60·9	8·4	1½	1
A	13	11·1	3·4	18·0	35·6	43·0	60·0	6·2	76·9	9·6	1	1
N 142 C	6	12·0	3·8	12·9	37·5	45·8	75·0	7·1	88·6	8·3	1½	1
B	19	11·6	3·9	15·2	36·1	44·8	73·4	6·6	86·3	9·6	2	2
A	7	12·3	4·3	10·3	37·7	44·7	82·4	5·4	88·4	6·4	3	2
N 143 E	15	12·4	4·1	10·0	38·4	47·5	84·1	5·7	89·1	6·4	2½	2
D	9	11·4	4·0	15·9	35·5	44·6	68·3	7·7	81·2	10·0	1	1
C	11	12·1	4·0	11·3	36·4	48·3	81·0	6·9	89·9	7·9	1½	1
B	24	10·9	4·0	19·1	33·6	43·3	60·2	7·3	76·5	9·8	1	1
A	8½	11·0	4·0	15·3	34·6	46·1	68·9	7·6	85·0	10·0	1	1
N 144 E	5	—	3·9	23·1	30·5	42·5	44·6	7·6	68·8	12·4	1 F	—
D	7	11·1	4·1	18·2	33·0	44·7	57·1	6·2	71·1	8·7	1	1
C	7	—	3·8	34·0	20·7	31·5	2·2	—	19·3	17·4	1	1 F
B	9	11·6	4·0	14·0	37·3	44·7	70·5	5·6	77·3	6·1	1	1
A	23	—	4·0	30·3	23·2	42·5	3·8	—	27·4	15·4	—	1 F
N 145 D	14	—	3·5	20·7	31·0	44·8	51·9	5·1	64·8	7·0	1	1
C	39	—	4·0	31·9	19·8	44·3	1·4	—	29·4	14·5	—	—
B	29	—	3·6	22·8	28·2	45·4	27·6	6·0	60·6	11·0	1 F	—
A	13½	—	3·2	25·6	29·4	41·8	34·9	6·0	58·9	10·7	1½	1½

BOORGAT 33 : VERLOREN VALEY 541 : BOREHOLE 33.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.		Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No. Fl. 1·6
N 146	D	6	—	3·4	27·6	31·6	37·4	41·8	6·9	58·8	10·4	1	1 F
	C	15	—	3·7	32·5	22·1	41·7	2·9	—	35·4	17·2	—	1 F
	B	15	—	3·4	34·9	22·3	39·4	7·0	3·9	31·6	14·1	—	1 F
	A	25½	—	3·9	28·7	21·8	45·6	5·9	6·0	41·7	11·9	—	1 F
N 147	C	14	—	3·8	30·5	20·2	45·5	2·3	—	23·5	12·2	—	1 F
	B	17	—	3·7	27·9	20·9	47·5	5·5	6·4	45·4	15·6	—	1 F
	A	48	—	3·8	27·6	20·8	47·8	15·1	5·3	50·1	11·6	1 F	—
N 189		34	—	4·1	25·5	19·1	51·3	15·0	5·4	52·9	11·9	1 F	1 P
N 190	F	8	—	4·6	20·5	21·4	53·5	15·0	6·9	80·3	14·2	1 P	—
	E	9	—	3·5	28·0	27·4	41·1	26·4	5·6	47·3	9·6	1 F	1 F
	D	11	—	3·9	21·9	26·7	47·5	39·0	5·3	58·6	9·6	1 F	1 F
	C	42	—	3·7	31·3	21·0	44·0	—	—	—	—	—	—
	B	6	11·5	4·3	17·2	29·9	48·6	55·8	4·7	72·0	8·5	1	1 F
	A	17	11·7	4·4	15·0	25·5	55·1	59·9	5·4	81·8	7·6	1 F	1 F

BOORGAT 34 : KURZABONAKOP 357 : BOREHOLE 34.

Kern ⅞ dm. Core ⅞ in.

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Grond	47 0	47 0	Soil.
Sandsteen, fynkorrelrig, rooibruin	30 0	—	Sandstone, fine-grained, reddish brown.
Sandsteen, fynkorrelrig, ligbruin	115 0	—	Sandstone, fine-grained, ligh brown.
Sandsteen, fynkorrelrig, vuilwit	10 10	—	Sandstone, fine-grained, dirt white.
Sandsteen, fynkorrelrig, ligpers	3 2	206 0	Sandstone, fine-grained, ligh purple.
Sandsteen, fynkorrelrig, ligpers, met kalkknolle (Rooilae begin op 206′ 0″)	11 0	217 0	Sandstone, fine-grained, ligh purple with calcareou nodules (Red Beds begin a 206′ 0″).
Sandsteen, fynkorrelrig, ligpers en persbruin met kalkknolle	3 1	—	Sandstone, fine-grained, ligh purple and purplish brow with calcareous nodules.
Sandsteen, fynkorrelrig, bruin, met slegs enkele klein kalkknolletjies	10 6	—	Sandstone, fine-grained, brown with only an occasiona calcareous nodule.
Sandsteen, fynkorrelrig, wit, bruin, bruinpers en ligpers, wit ondergeskik, bruinpers, oorwegend	56 5	287 0	Sandstone, fine-grained, white brown, brownish purple an light purple, white, subor dinate, brownish purpl predominant.

BOORGAT 35 : SMITSPAN 717 : BOREHOLE 35.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Grond	18 0	18 0	Soil.
Gruis	2 0	20 0	Gravel.
Moddersteen (stamper-boor)	110 0	130 0	Mudstone (jumper drill).
Skalie, met **steenkoollae**	6 10	—	Shale, with **coal** bands.
Glanskool, fyngelaag, plek-plek skalieagtig (kern gebreek)	1 9	138 7	**Coal,** bright, finely streake shale in places (core broken)
Glanskool, fyngelaag om die beurt met lagies vitriet tot 1″ dik	2 5	141 0	**Coal,** bright, finely streaked alternating with bands o vitrain, thin to 1″ thick.
Skalie, swart en koolstofhoudend met 11 **steenkoollae** van 2″ tot 5″ dik	46 8	187 8	Shale, black and carbonaceou with 11 **coal** bands from 2 to 5″ thick.
Glanskool, gelaag	3½	—	**Coal,** bright, streaked.
Skalie, koolstofhoudend	4½	188 4	Shale, carbonaceous.
Glanskool, fyngelaag, afwisselend met dun lagies vitriet, **glanskool** bevat skalie-dele	7½	—	**Coal,** bright, finely bande alternating with thin band of vitrain; bright **coal** con tains shale in places.

Aard van lae.	Dikte verkry. Thickness Recovered. *Vt. Dm.* *Ft. In.*	Ware diepte. True Depth. *Vt. Dm.* *Ft. In.*	Nature of Strata.
anskool en skalieagtige **steenkool** afwisselend, bevat, baie skalie-dele en gemeng met sand	1 4½	190 4	**Coal,** bright, and shaly **coal,** alternating, contain much shale and mixed with sand.
alie, met 3″ × 3″ **glanskoollagies**	4 10	—	Shale, with 3″ × 3″ bright **coal** streaks.
alie, met enkele kwartskorrels	3 7	—	Shale, with an occasional quartz grain.
alie....................	9	—	Shale.
alie, effens sanderig met enkele groterige kwartskorrels	1 5	200 11	Shale, slightly sandy with an occasional big quartz grain.
alie, koolstofhoudend....	10	—	Shale, carbonaceous.
alie, koolstofhoudend, met modderklontjies	6	—	Shale, carbonaceous, with clay pellets.
alie, koolstofhoudend en **steenkool**	17 5	219 8	Shale, carbonaceous and **coal.**
eenkool, dof, swaar, plek-plek skalieagtig, met 'n paar **glanskoollagies** onderaan	1 11	221 7	**Coal,** dull, heavy, shaly in places, with a few bright **coal** stringers at bottom.
anskoollagies en skalie...	4	221 11	**Coal,** bright streaks and shale.
alie, koolstofhoudend met 'n paar **glanskoollae** onderaan	2 9	—	Shale, carbonaceous with a few bright **coal** bands at bottom.
alie, effens sanderig.....	2 4	227 0	Shale, slightly sandy.
eenkool, dof, oorwegend skalieagtig	8	227 8	**Coal,** dull, mainly shaly.
eenkool, dof, skalieagtig, afgewissel met koolstofhoudende skalie, met 'n paar **glanskoollagies**	7 9	235 5	**Coal,** dull, shaly, alternating with carbonaceous shale, with a few bright **coal** stringers.
anskool, fyngelaag.......	2	235 7	**Coal,** bright, finely banded.
alie met 'n paar **glanskoolstrepies**	1 8	—	Shale with a few bright **coal** stringers.
eenkool, dof, skalieagtig met 'n paar **glanskoollagies** en 2″ × 1″ hoofsaaklike **glanskoollagies** by bo-ent	1 10	239 1	**Coal,** dull, shaly, with a few bright bands and 2″ × 1″ mainly bright bands at the top.
eenkool, dof, skalieagtig, met 'n 1″ pirietknol by bo-ent	9	—	**Coal,** dull, with a 1″ pyrites nodule near top.
eenkool, dof, skalieagtig **steenkoolhoudende** skalie en **glanskool**	2 8	242 6	**Coal,** dull, **coaly** shale and bright **coal.**
ndsteen, fynkorrelrig, vaalwit	1 5½	—	Sandstone, fine-grained, dirty white.
anskool (vitriet), koolstofhoudende skalie en skalieagtige dowwe **steenkool** om die beurt; 6″ in middel baie vuil	1 6½	245 6	**Coal,** bright (vitrain), carbonaceous shale and dull shaly **coal** alternating 6″ in middle very dirty.
alie en **steenkool**........	6	—	Shale and **coal.**
anskool en skalie, koolstofhoudende skalie en **steenkoolhoudende** skalie, beurtelings	11	246 11	**Coal,** bright, and shale, carbonaceous shale and **coaly** shale, alternating.
anskool, met skalie-dele..	2	—	**Coal,** bright, with shaly portions.
eenkool, dof, skalieagtig, met 'n 2″ **glanskoollagie** naby bo-ent en 'n 3″ **glanskoollaag** naby onderent	3 5	—	**Coal,** dull and shaly, with a 2″ bright **coal** band near top and a 3″ bright **coal** band near bottom.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie, blouerig-bruin......	11	2	—		Shale, bluish-brown.
Steenkool, dof.............		3	—		**Coal,** dull.
Skalie en **steenkoolhoudende** skalie	2	7	—		Shale and **coaly** shale.
Skalie en skalieagtige dowwe **steenkool** om die beurt	9	1	—		Shale and shaly dull **coa** alternating.
Skalie, grys-blou by bo-ent	3	0	—		Shale, greyish blue at top.
Skalie en skalieagtige dowwe **steenkool**	3	11	—		Shale and shaly dull **coal.**
Steenkool, dof. **glanskool** en skalie beurtelings	1	1	281	7	**Coal,** dull, bright **coal** an shale, alternating.
Skalie, koolstofhoudend....	7	3	—		Shale, carbonaceous.
Skalie en skalieagtige dowwe **steenkool** beurtelings	1	9	—		Shale and shaly dull **coal** alternating.
Skalie, swart en grys......	3	3	293	10	Shale, black and greyish.
Sandsteen, grys skalieagtig.		6	294	4	Sandstone, grey, shaly.
Sandsteen, fynkorrelrig, grys en mikadraend	17	0	—		Sandstone, fine-grained, gre and micaceous.
Sandsteen, grofkorrelrig, wit	5	1	—		Sandstone, coarse-grained white.
Sandsteen, fyn- tot middelkorrelrig, grys tot wit, mikadraend	16	11	333	4	Sandstone, fine- to medium grained, grey to white, micaceous.
Steenkool, dof, met 'n 1″ pirietknol naby bo-ent	2	10	—		**Coal,** dull, with a 1″ pyrite nodule near top.
Steenkool, dof, en **glansend** gemeng, hoofsaaklik dof, met skalie-dele, vuil	1	0	—		**Coal,** dull and bright **coa** mixed, mainly dull **coal** with shale portions, dirty.
Steenkool, skalieagtig......	1	0	—		**Coal,** dull, shaly.
Skalie en skalieagtige dowwe **steenkool**	1	9	—		shale and dull shaly **coal.**
Steenkool, dof en **glansend,** vuil	1	1	341	0	**Coal,** dull, and bright **coal** dirty.
Sandsteen, fynkorrelrig, grys, mikadraend	9	4	—		Sandstone, fine-grained, grey micaceous.
Steenkool, dof, en skalie...		11	—		**Coal,** dull, and shale.
Skalie....................		9	—		Shale.
Steenkool (hoofsaaklik dof), en skalie gemeng, met 'n 4″ piriet-band 12″ van bo-af	3	11	355	11	**Coal** (mainly dull), and shal mixed, with a 4″ pyrite band 12″ from top.
Steenkool, dof, dowwer na bo en glansend na onder, gemeng met skalie	1	9	357	8	**Coal,** duller at top and brigh at bottom, mixed with shale
Skalie en skalieagtige **steenkool**	1	0	—		Shale and shaly **coal.**
Steenkool, dof, en skalie gemeng	2	9	—		**Coal,** dull, and shale, mixed.
Steenkool, dof en glansend lg. oorwegend		7	362	0	**Coal,** bright and dull mainly bright **coal.**
Glanskoollae en skalieagtige dowwe **steenkoollae** om die beurt, met ½″ piriet 2″ van bo-af	1	0	363	0	**Coal,** bright bands, and dul shaly **coal** bands, alternating, with ½″ pyrites 2′ from top.
Steenkool, dof, baie skalieagtig		6	—		**Coal,** dull, very shaly.
Glanskool, met 1″ moddersteen 9″ van bo-af en een 1″ vitrietlagie. Skalieagtige dele en modderklontjies by onder-ent	1	6	365	0	**Coal,** bright, with 1″ mudston 9″ from top and one 1″ vitrainband. Shaly portions and clay pellets at bottom

Bg. 35 (*Verv.*) B.H. 35 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Sandsteen, fynkorrelrig, vaal, mikradraend, skalieagtig na onder	11 9	—	Sandstone, fine-grained, greyish, macaceous, shaly at bottom.
Sandsteen, middelkorrelrig, vaal, en mikadraende skalie	1 3	—	Sandstone, medium-grained, greyish and micaceous shale.
Skalie, bloubruin, mikadraend	6 6	—	Shale, bluish brown, micaceous.
Skalie en sandsteen, grys, mikadraend	3 6	—	Shale and sandstone, grey, micaceous.
Sandsteen, middelkorrelrig, vuilwit, met 'n paar skalielae	3 10	391 10	Sandstone, medium-grained, dirty white, with a few shale bands.
Steenkool, dof, skalieagtig, met 'n 1½" sandsteenband 12" van bo-af	2 2	—	**Coal,** dull, shaly, with a 1½" sandstone band 12" from top.
Steenkool, dof, soos kennelkool	1 0	—	**Coal,** dull, cannel-like.
Steenkool, dof, skalieagtig, met 'n paar **glanskoollagies** by bo-ent	1 0	—	**Coal,** dull, shaly, with a few bright **coal** bands at top.
Steenkool, dof, baie skalieagtig	9	—	**Coal,** dull, very shaly.
Skalie en gelaagde sandsteen, mikadraend	8	396 9	Shale and laminated sandstone, micaceous.
Sandsteen, fynkorrelrig, grys, mikadraend, afwisselend met mikadraende skalielae	9 4	—	Sandstone, fine-grained, grey, micaceous, alternating with micaceous shale bands.
Sandsteen, grofkorrelrig tot grintagtig, veldspaties, wit	8 4	—	Sandstone, coarse-grained to gritty, felspathic, white.
Sandsteen, grys, fynkorrelrig	2 11	—	Sandstone, grey, fine-grained.
Sandsteen, fyn- en middelkorrelrig, afwisselend, grys	24 1	442 1	Sandstone, fine- to coarse-grained, alternating, greyish.
Skalie, blou-grys, met sandsteenlae	18 0	—	Shale, bluish-grey, with sandstone bands.
Skalie, swart, met enkele kwartskorrels	46 11	507 0	Shale, black, with an occasional quartz grains.

BOORGAT 35 : SMITSPAN 717 : BOREHOLE 35.

Bg. 35 (*Verv.*) B.H. 35 (*Contd.*)

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
N 298 G	**Glanskool,** fyngelaag, skalie hier en daar (kern gebreek)	21	138 7	**Coal,** bright, finely banded, shale in places (core broken).
F	**Glanskool,** fyngelaag, en strepies vitriet tot 1" dik afwisselend	29	—	**Coal,** bright, finely banded and vitrain streaks to 1" thickness, alternating.

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
N 208 E	**Glanskool,** gestreep . . .	3½	—	**Coal,** bright banded
	N.G.	4½	188 1	**N.S.**
D	**Glanskool,** fyngelaag met dun strepies vitriet, skalie hier en daar	7½		**Coal,** bright finely ban ded, alternating wit thin streaks of vit rain, shale in places
C	**Glanskool** en skalieagtige **steenkool,** afwisselend, bevat baie skalie-dele en gemeng met sand	16½	200 4	**Coal,** bright and shaly **coal,** alternating, con tains shale in many places and mixed wit sand.
B	**Steenkool,** dof, swaar, skalieagtig met 'n paar **glanskoolstrepies** by onderent	23	221 7	**Coal,** dull, heavy, shaly with a few bright **coa** stringers at bottom.
A	**Glanskoolstrepies** en skalie	4	221 11	**Coal,** bright streaks and shale.
N 209 E	**Steenkool,** oorwegend dof, plek-plek skalieagtig	8	227 8	**Coal,** mainly dull, shal in parts.
	N.G.	93	235 5	**N.S.**
D	**Glanskool,** fyngelaag . .	2	235 7	**Coal,** bright finely banded
	N.G.	7	—	**N.S.**
	N.G.	13	—	**N.S.**
C	**Steenkool,** dof, skalieagtig met 'n paar glanskoollae en 2" × 1" oorwegend glanskoollae by bo-ent	22	239 1	**Coal,** dull, shaly, with a few bright bands an 2" × 1" mainly brigh bands at the top.
	N.G.	9	—	**N.S.**
	N.G.	32	242 6	**N.S.**
	N.G.	17½	243 11½	**N.S.**
B	**Glanskoollae** vitriet, koolstofhoudende skalie en skalieagtige dowwe **steenkool** 6" in middel baie vuil	18½	245 0	**Coal,** bright bands (vit rain), carbonaceous shale and dull shaly **coal** 6" in centre ver dirty.
	N.G.	6	—	**N.S.**
A	**Glanskool** en skalie, koolstofhoudende skalie en **steenkoolhoudende** skalie, afwisselend	11	249 11	**Coal,** bright, and shale carbonaceous shale and dull **coaly** shale alternating.
N 210 D	**Steenkool,** dof met 'n 1" pirietknol naby bo-ent uitgesluit	34	339 2	**Coal,** dull, with a 1 pyrites nodule near top excluded.
C	**Steenkool,** dof en glansend gemeng dofkool oorwegend, met skaliedele, vuil	12	—	**Coal,** dull, and bright **coal,** mainly dull **coal** with shale portions dirty.
B	**Steenkool,** dof, skalieagtig	12	—	**Coal,** dull, shaly.
	N.G.	21	—	**N.S.**
A	**Steenkool,** dof en **glanskool,** gemeng, vuil	13	341 0	**Coal,** dull, and bright **coal,** mixed, dirty.

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
N 280 D	**N.G.**	47	—	**N.S.**
	Steenkool, dof, dowwer na bo en glansend na onder, gemeng met skalie	21	357 8	**Coal,** dull, duller at top and bright at bottom, mixed with shale.
	N.G.	12	—	**N.S.**
	N.G.	33	—	**N.S.**
C	**Steenkool,** glansend en dof, lg. oorwegend	7	362 0	**Coal,** bright and dull, mainly bright **coal.**
B	**Glanskoollae** en skalieagtige dowwe **steenkoollae** beurtelings met ½″ piriet 2″ van bo-af uitgesluit	12	363 0	**Coal,** bright bands and dull shaly **coal** bands, alternating, with ½″ pyrites 2″ from top excluded.
N 280 A	**N.G.**	6	—	**N.S.**
	Glanskool, 1″ moddersteen 9″ van bo-af uitgesluit en een 1″ vitrietlaag	18	365 0	**Coal,** bright, 1″ mudstone 9″ from top excluded and one 1″ band of vitrain.
N 281	**N.G.**	46	391 10	**N.S.**
C	**Steenkool,** dof, skalieagtig met 'n 1½″ sandsteenlagie 12″ van bo-af uitgesluit	26	—	**Coal,** dull, shaly, with a 1½″ sandstone band, 12″ from top excluded.
B	**Steenkool,** dof, soos kennelkool	12	—	**Coal,** dull, cannel-like.
A	**Steenkool,** dof, skalieagtig, met 'n paar glanskoollagies by bo-ent	12	—	**Coal,** dull, shaly, with a few bright bands at top.
	N.G.	9	396 9	**N.S.**

BOORGAT 35 : SMITSPAN 717 : BOREHOLE 35.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
N 279 D	33	10·7	2·7	22·8	19·8	54·7	13·4	7·3	71·4	16·9	1	1 F
C	12	10·3	2·8	24·4	22·7	50·1	19·5	7·0	61·0	14·0	1 F	1 F
B	12	9·6	2·6	29·7	17·9	49·8	4·0	—	43·0	17·6	—	1 F
A	13	11·2	2·8	19·3	28·4	49·5	40·4	6·1	75·7	10·7	1	1
N 280 D	21	10·3	2·5	25·3	22·5	49·7	29·6	6·5	62·7	11·4	1½	1
C	7	13·1	2·8	8·8	31·9	56·5	78·5	5·6	93·1	7·3	1½	1
B	11½	11·7	2·5	18·1	27·5	51·9	50·0	5·9	76·3	10·0	1½	1
A	17	10·9	2·7	21·3	32·4	43·6	54·8	5·8	69·3	7·2	2½	2
N 281 C	24½	12·1	2·8	15·6	20·4	61·8	28·7	5·2	87·0	11·5	1 F	1 F
B	12	12·49	3·1	12·8	23·3	60·8	39·4	6·0	91·2	10·8	1	1 F
A	12	12·7	2·8	11·9	29·0	56·3	63·5	6·4	91·9	9·6	1	1
N 298 G	21	10·9	1·7	22·6	33·8	41·9	49·7	8·6	77·8	15·2	4½	1½
F	29	9·2	1·7	28·8	36·8	32·7	41·5	6·5	58·8	10·0	4½	2
E	3½	11·4	1·8	18·0	34·6	45·6	64·0	5·8	76·2	8·8	3	2
D	7½	11·5	2·4	18·5	32·0	47·1	62·5	6·3	79·2	9·5	3½	2½
C	16½	—	1·3	44·2	31·3	23·2	—	—	—	—	—	—
B	23	—	1·7	38·1	20·7	39·5	—	—	—	—	—	—
A	4	—	1·7	37·8	25·1	35·4	—	—	—	—	—	—
N 299 E	8	—	1·3	38·1	24·2	36·4	—	—	—	—	—	—
D	2	12·1	2·1	15·2	33·1	49·6	75·4	8·5	87·1	10·4	1	1
C	22	—	1·6	31·9	22·9	43·6	9·7	7·3	38·1	16·9	1	1
B	18½	—	1·5	30·9	26·8	40·8	24·0	7·2	46·5	13·6	2½	1
A	11	—	1·3	38·6	30·0	30·1	—	—	—	—	—	—

BOORGAT 36 : WELLINGTON 606 : BOREHOLE 36.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Sand......................	10	0	—		Sand.
Sandsteen, fynkorrelrig, wit, met onderste 4′ ligpers tot ligbruin	148	8	158	8	Sandstone, fine-grained, white, with bottom 4′ light purple to light brown.
Sandsteen, fynkorrelrig, sjokoladebruin en wit in gelyke mate om die beurt en met baie kalkknolle (Rooi-lae)	329	10	488	6	Sandstone, fine-grained, chocolate brown and white alternating in equal proportions and with many lime nodules (Red Beds).
Sandsteen, middelkorrelrig, met klei grondmassa (Molteno)		6	—		Sandstone, medium-grained, with clay matrix (Molteno).
Sandsteen, baie fynkorrelrig, liggroen tot vuilwit	1	0	—		Sandstone, very fine-grained, light green to dirty white.
Sandsteen, baie fynkorrelrig, met onderste 1′ 6″ kleiïg; wit en liggroen	6	0	—		Sandstone, very fine-grained, with bottom 1′ 6″ clayey; white and light green.
Kleikorrelkonglomeraat met groen grondmassa en grys-kleurige kleikorrels; bevat baie kwartskorrels	1	2	—		Clay pellet conglomerate with green matrix and greyish clay pellets; contains many quartz grains.
Sandsteen, kleiïg, liggroen..		6	—		Sandstone, clayey, light green.
Sandsteen, kleiïg, sjokoladebruin met onderste 8′ wit en bruin om die beurt	31	2	—		Sandstone, clayey, chocolate brown with bottom 8′ white and brown alternating.
Sandsteen, fynkorrelrig, wit en ligpers	2	6	—		Sandstone, fine-grained, white and light purple.
Sandsteen, middelkorrelrig, wit, met kleiknolle hier en daar en 'n paar liggroen kleiïge sandsteenlae	7	0	552	0	Sandstone, medium-grained, white with occasional clay nodules and a few light green clayey sandstone bands.
Kleikorrelkonglomeraat, piriethoudend		5	—		Clay pellet conglomerate, pyritic.
Moddersteen, liggroen......	1	0	—		Mudstone, light green.
Moddersteen, donkerbruin tot donkerpers, met groen knolle hier en daar	34	7	588	0	Mudstone, dark brown to dark purple, with occasional green nodules.
Moddersteen, grys en rooi-gevlek	92	3	680	3	Mudstone, grey and red stained.
Moddersteen, grys.........	99	9	780	0	Mudstone, grey.
Moddersteen, swartblou....	8	0	788	0	Mudstone, blackish blue.
Skalie, koolstofhoudend....	3	3	791	3	Shale, carbonaceous.
Steenkool, skalieagtig......		3	791	6	**Coal,** shaly.
Glanskool met skalie in dele		11	—		**Coal,** bright, with shale in places.
Glanskool, fyngelaag.......	1	7	—		**Coal,** bright; finely banded.
Skalie, swart..............		5	—		Shale, black.
Glanskool, fyngelaag, piriethoudend	1	4	—		**Coal,** bright, finely banded, pyritic.
Skalie, swart..............		5	—		Shale, black.
Glanskool, fyngelaag, met talle dik vitrietlae. Piriethoudend bo-aan; kalsiethoudend	2	1	—		**Coal,** bright, finely banded, with numerous vitrain bands. Pyritic at top; calcitic.
Skalie met 'n bietjie **steenkool** bo en onderaan		11	—		Shale with a little **coal** at top and bottom.
Steenkool, gemeng en met skalie in dele		10	—		**Coal,** mixed, and with shale in places.
Skalie....................		9	—		Shale.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Steenkool, oorwegend **glansend**	1	1	801	10	**Coal,** mainly bright.
Skalie, swart	11	3	—		Shale, black.
Steenkool		4	—		**Coal.**
Skalie, swart	3	5	816	10	Shale, black.
Glanskool, fyngelaag		5	—		**Coal,** bright, finely banded.
Skalie met 'n bietjie **steenkool**	1	3	—		Shale, with a little **coal.**
Glanskool met skaliedele		5	—		**Coal,** bright, with shale portions.
Skalie met 'n bietjie **steenkool**	1	0	—		Shale, with a little **coal.**
Vitriet		2	—		**Vitrain.**
Skalie		3½	—		Shale.
Glanskool, fyngelaag		4	—		**Coal,** bright, finely banded.
Skalie		2½	—		Shale.
Steenkool, gemeng, met skaliedele	1	0	821	11	**Coal,** mixed, with shale portions.
Skalie met 'n bietjie **steenkool**	1	6	823	5	Shale, with a little **coal.**
Steenkool, gemeng		7	—		**Coal,** mixed.
Skalie en **steenkoolagtige** skalie	1	0	—		Shale and **coaly** shale.
Steenkool, dof en glansend, lg. oorwegend		8	825	8	**Coal,** bright, and dull **coal,** mainly bright **coal.**
Skalie en **steenkoolagtige** skalie		4	—		Shale and **coaly** shale.
Steenkool, gemeng, plek-plek skalieagtig. Oorwegend **glanskool** by onder-ent	1	0	—		**Coal,**, mixed, shaly in places, mainly bright at bottom.
Skalie		2	—		Shale.
Glanskool en dowwe **steenkool,** oorwegend **glanskool**	1	2	—		**Coal,** bright, and dull, mainly bright **coal.**
Skalie		8	—		Shale.
Glanskool oorwegend		8	—		**Coal,** mainly bright **coal.**
Skalie		9	—		Shale.
Skalie en gemengde **steenkool**	1	3	—		Shale and mixed **coal.**
Skalie, swart		3½	—		Shale, black.
Glanskool oorwegend		6½	—		**Coal,** mainly bright **coal.**
Skalie, koolstofhoudend, en gemengde **steenkool** en skalie by onder-ent	1	2	—		Shale, carbonaceous, and mixed **coal** and shale at bottom.
Skalie en gemengde **steenkool**	1	3	—		Shale and mixed **coal.**
Skalie met 'n bietjie **steenkool**	1	1	—		Shale with a little **coal.**
Steenkool, gemeng, met skaliedele; meer glansend na onder	1	2	—		**Coal,** mixed, with shale portions; more bright **coal** towards bottom.
Skalie met 'n bietjie **steenkool**		6	—		Shale with a little **coal.**
Glanskoollae en skalieagtige **steenkoollae,** beurtelings; 2" koolstofhoudende skalie in middel	2	6	—		**Coal,** bright, banded, and shaly **coal** bands, alternating 2" carbonaceous shale in middle.
Skalielae, koolstofhoudend, en gemengde **steenkool** en skalie	3	1	—		Shale bands, carbonaceous, and mixed **coal** and shale.
Glanskool en skalie gemeng		4	—		**Coal,** bright, and shale, mixed.
Skaliebande, koolstofhoudend, en dun **steenkoollagies**	1	3	—		Shale bands, carbonaceous, and thin **coal** bands.
Glanskool		9	—		**Coal,** bright.
Skalie	1	0	—		Shale.
Glanskool	1	4	—		**Coal,** bright.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
Skalie, koolstofhoudend met 'n paar **glanskoollae**		9	—		Shale, carbonaceous, with a few bright **coal** bands.
Glanskool oorwegend	1	2	—		**Coal,** mainly bright.
Skalie	2	1	—		Shale.
Glanskool oorwegend		11	852	10	**Coal,** mainly bright.
Skalie		2	—		Shale.
Skalie, swart, met enkele **steenkoolstrepies**	3	4	—		Shale, black, with a few **coal** streaks.
Skalie, koolstofhoudend		8	857	0	Shale, carbonaceous.
Steenkool en skalie, gemeng		9	—		**Coal** and shale, mixed.
Glanskool, gestreep, kalsiethoudend		9	—		**Coal,** bright banded, calcitic.
Skalie, swart		4	—		Shale, black.
Glanskool, gestreep, kalsiethoudend		4½	—		**Coal,** bright banded, calcitic.
Skalie, koolstofhoudend		1½	—		Shale, carbonaceous.
Glanskool, gestreep, kalsiethoudend		6	—		**Coal,** bright banded, calcitic.
Skalie, koolstofhoudend		10	—		Shale, carbonaceous.
Glanskool, gestreep, gemeng in boonste 6″	2	3½	—		**Coal,** bright banded, mixed in top 6″
Glanskool met skaliedele		10	—		**Coal,** bright, with shale portions.
Skalie, koolstofhoudend		1	—		Shale, carbonaceous.
Glanskool, kalsiethoudend		2½	—		**Coal,** bright, calcitic.
Skalie, koolstof- en kalsiethoudend		5	—		Shale, carbonaceous and calcitic.
Glanskool, gestreep met een dun skalielagie; kalsiet- en piriethoudend	4	11	—		**Coal,** bright, banded, with one thin shale band; calcitic and pyritic.
Glanskool- en skalielae, beurtelings; glyvakke in middel; kalsiethoudend	3	1	—		**Coal,** bright bands, and shale bands alternating; slickensides in middel; calcitic.
Skalie, koolstofhoudend		9	—		Shale, carbonaceous.
Glanskool, gestreep, met 'n paar dun skalielae	1	11	—		**Coal,** bright banded, with a few thin shale bands.
Skalie, koolstofhoudend		6	—		Shale, carbonaceous.
Glanskool, gestreep, 3½″ vuil **steenkool** 7″ van onder af	2	7	—		**Coal,** bright banded, 3½″ dirty **coal,** 7″ from bottom.
Skalie en **steenkoollae** om die beurt	2	9	881	0	Shale bands and **coal** bands, alternating.
Skalie, koolstofhoudend	3	6	883	6	Shale, carbonaceous.
Glanskool, gestreep, kalsiet- en piriethoudend met 2″ skalie by bo-ent en 4″ piriethoudende **steenkool** 12″ van bo-af	3	3	886	9	**Coal,** bright banded, calcitic and pyritic, with 2″ shale at top and 4″ pyritic **coal** 12″ from top.
Skalie, koolstofhoudend, met baie strepies **glanskool**	4	8	891	5	Shale, carbonaceous, with many bright **coal** streaks.
Glanskool		8	—		**Coal,** bright.
Steenkool gelaag, en skalie.		7	—		**Coal,** banded, and shale.
Skalie		8	—		Shale.
Glanskool en skalie	1	6	895	0	**Coal,** bright; and shale.
Skalie		2	—		Shale.
Skalie, koolstofhoudend met enkele **steenkoollagies**	1	5	—		Shale, carbonaceous, with a few **coal** streaks.
Skalie, koolstofhoudend, en **glanskoollagies** met skalielagies	5	5	902	0	Shale, carbonaceous, and bright **coal** bands with shale streaks.
Glanskool, gelaag, en skalie		8	—		**Coal,** bright banded, and shale.
Skalie, koolstofhoudend		2½	—		Shale, carbonaceous.
Glanskool, gelaag en skalie.		3½	—		**Coal,** bright banded, and shale.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
Skalie, koolstofhoudend....		1½	—		Shale, carbonaceous.
Glanskool, gelaag en skalie.		6½	—		**Coal,** bright banded, and shale
Skalie, koolstofhoudend....		3	—		Shale, carbonaceous.
Glanskool, gelaag en skalie.		6	—		**Coal,** bright banded, and shale
Skalie, koolstofhoudend....	1	1	—		Shale, carbonaceous.
Glanskoollae en koolstofhoudende skalielae om die beurt; piriethoudend na onder	1	10	—		**Coal,** bright bands, and carbonaceous shale bands, alternating, pyritic toward bottom.
Skalie- en **glanskoollae** om die beurt	5	6	—		Shale bands and bright **coa** bands, alternating.
Glanskool, gelaag..........	1	5	—		**Coal,** bright banded.
Skalie, koolstofhoudend, en vuil **steenkool**	1	1	—		Shale, carbonaceous and dirt **coal.**
Glanskool, gelaag, kalsiethoudend		11	—		**Coal,** bright banded, calcitic.
Skalie, koolstofhoudend....		6	—		Shale, carbonaceous.
Glanskool gelaag, kalsiethoudend	1	1	—		**Coal,** bright banded, calcitic.
Skalie, koolstofhoudend, met 'n paar **glanskoollae**	1	3	919	3	Shale, carbonaceous, with few bright **coal** bands.
Steenkool gemeng, piriethoudend, korrelrige **steenkool** en koolstofhoudende skalie	1	9	921	0	**Coal,** mixed, pyritic, gritt **coal** and carbonaceous shal
Skalie, koolstofhoudend, met 3 **steenkoollagies** van 3–6″ dik	6	6	927	6	Shale, carbonaceous, with **coal** bands from 3–6″ thick
Steenkool gemeng, en skalie, (lagies toon helling van 50° B.N.I.)		11	928	5	**Coal,** mixed and shale (band show dip of 50° F.R.I.).
Skalie, koolstofhoudend, met enkele **glanskoolstrepe**	3	4	—		Shale, carbonaceous, with few bright **coal** streaks.
Glanskool met baie piriet en kleiklontjies		8	—		**Coal,** bright, with much pyrite and clay pellets.
Skalie, koolstofhoudend, met verskeie **glanskoollagies** van 1–3″ dik	13	7	946	0	Shale, carbonaceous, with few bright **coal** bands fro 1–3″ thick.
Skalie-bande, koolstofhoudend, skalieagtige **steenkoollae,** skalie oorwegend	4	2	—		Shale bands, carbonaceous, an shaly **coal** bands; mainl shale.
Skalie, koolstofhoudend....		2	950	4	Shale, carbonaceous.
Glanskool met 2 skalielae..	1	9	—		**Coal,** bright, with 2 shal bands.
Skalie, koolstofhoudend....	1	4	—		Shale, carbonaceous.
Glanskool, gestreep, met skaliedele, kalsiethoudend	1	3	—		**Coal,** bright banded, with shal portions, calcitic.
Skalie, koolstofhoudend, met een **steenkoolband**	1	0	—		Shale, carbonaceous, with on **coal** band.
Glanskool, gestreep........		6	—		**Coal,** bright banded.
Skalie, koolstofhoudend....		1½	—		Shale. carbonaceous.
Glanskool, gestreep........		2½	956	6	**Coal,** bright banded.
Skalie, koolstofhoudend, met enkele **glanskoollagies** van 1–3″ dik	43	6	1,000	0	Shale, carbonaceous, with few bright **coal** bands fro 1–3″ thick.

o. van onster B.-N.-I. F.R.I. mple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
12	**N.G.**	3	791 6	**N.S.**
G	**Glanskool,** met skalie in dele	11	—	**Coal,** bright, with shale in places.
F	**Glanskool,** fyngestreep	19	—	**Coal,** bright, finely banded.
	N.G.	5	—	**N.S.**
E	**Glanskool,** fyngestreep, piriethoudend	16	—	**Coal,** bright, finely banded, pyritic.
	N.G.	5	—	**N.S.**
D	**Glanskool,** fyngestreep, met talle vitrietlae, piriethoudend by bo-ent; kalsiethoudend	25	—	**Coal,** bright, finely banded, with numerous vitrain bands, pyritic at top; calcitic.
	N.G.	11	—	**N.S.**
C	**Steenkool,** gemeng, met skalie in dele	10	—	**Coal,** mixed and with shale in places.
	N.G.	9	—	**N.S.**
B	**Steenkool,** oorwegend **glanskool**	13	801 10	**Coal,** mainly bright.
	N.G.	135	—	**N.S.**
	N.G.	4	—	**N.S.**
	N.G.	41	816 10	**N.S.**
A	**Glanskool,** fyngestreep	5	—	**Coal,** bright, finely banded.
	N.G.	15	—	**N.S.**
	Glanskool met skaliedele	5	—	**Coal,** bright, with shale portions.
	N.G.	12	—	**N.S.**
A	**Vitriet**	2	—	**Vitrian.**
	N.G.	3½	—	**N.S.**
	Glanskool, fyngestreep	4	—	**Coal,** bright, finely banded.
	N.G.	2½	—	**N.S.**
	Steenkool, gemeng, met skaliedele	12	821 11	**Coal,** mixed, with shale portions.
	N.G.	18	823 5	**N.S.**
13 F	**Glanskool** en dowwe **steenkool,** oorwegend **glanskool**	8	825 8	**Coal,** bright and dull, mainly bright **coal.**
	N.G.	4	—	**N.S.**
	Steenkool, gemeng, skalieagtig hier en daar; oorwegend **glanskool** by onderent	12	—	**Coal,** mixed, shaly in places, mainly bright at bottom.
	N.G.	2	—	**N.S.**
E	**Glanskool** en dowwe **steenkool,** oorwegend **glanskool**	14	—	**Coal,** bright and dull, mainly bright **coal.**
	N.G.	8	—	**N.S.**
	Glanskool, oorwegend.	8	—	**Coal,** mainly bright.
	N.G.	9	—	**N.S.**
	N.G.	15	—	**N.S.**
	N.G.	3½	—	**N.S.**
	N.G.	6½	—	**N.S.**
	N.G.	14	—	**N.S.**
	N.G.	15	—	**N.S.**
	N.G.	13	—	**N.S.**

Bg. 36 (*Verv.*) B.H. 36 (*Contd.*)

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
D	**Steenkool,** gemeng met skaliedele ; meer glansend na onder	14	—	**Coal,** mixed, with sha portions, more brigh **coal** towards botto
	N.G.	6	—	**N.S.**
C	**Glanskool** en skalieagtige **steenkoollae** beurtelings ; 2″ koolstofhoudende skalie in middel uitgesluit	30	—	**Coal,** bright banded, an shaly **coal** bands, a ternating ; 2″ ca bonaceous shale i middle excluded.
	N.G.	37	—	**N.S.**
	N.G.	4	—	**N.S.**
	N.G.	15	—	**N.S.**
B	**Glanskool**	9	—	**Coal,** bright.
	N.G.	12	—	**N.S.**
A	**Glanskool**	16	—	**Coal,** bright.
	N.G.	9	—	**N.S.**
	Glanskool oorwegend	14	—	**Coal,** mainly bright.
	N.G.	25	—	**N.S.**
	Glanskool oorwegend	11	—	**Coal,** mainly bright.
	N.G.	2	853 0	**N.S.**
O 27	**N.G.**	8	857 0	**N.S.**
H	**Steenkool** en skalie gemeng	9	—	**Coal,** and shale mixed.
G	**Glanskool,** gestreep, kalsiethoudend	9	—	**Coal,** bright bande calcitic.
	N.G.	4	—	**N.S.**
	Glanskool, gestreep, kalsiethoudend	4½	—	**Coal,** bright, bande calcitic.
	N.G.	1½	—	**N.S.**
	Glanskool, gestreep, kalsiethoudend	6	—	**Coal,** bright bande calcitic.
	N.G.	10	—	**N.S.**
F	**Glanskool,** gestreep, gemeng in boonste 6″	27½	—	**Coal,** bright bande mixed at top 6″.
E	**Glanskool** met skaliedele	10	—	**Coal,** bright, with sha portions.
	N.G.	1	—	**N.S.**
	Glanskool, kalsiethoudend	2½	—	**Coal,** bright, calcitic.
	N.G.	5	—	**N.S.**
D	**Glanskool,** gestreep, met een dun skalielagie ; kalsiet- en piriethoudend	59	—	**Coal,** bright bande with one thin sha band ; calcitic an pyritic.
C	**Glanskool** en skalielae om die beurt ; glyvlakke in middel ; kalsiethoudend	37	—	**Coal,** bright bands an shale bands, alte nating ; slicken sid in middle ; calcitic
	N.G.	9	—	**N.S.**
B	**Glanskool,** gestreep, met 'n paar dun skalielae	23	—	**Coal,** bright bande with a few thin sha bands.
	N.G.	6	—	**N.S.**
A	**Glanskool,** gestreep, 3½″ vuil **steenkool** 7″ van onder af uitgesluit	31	—	**Coal,** bright banded, 3½ dirty **coal** 7″ fro bottom excluded.
	N.G.	33	881 0	**N.S.**

No. van nonster B.-N.-I. F.R.I. mple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
28	**N.G.**	42	883 6	**N.S.**
F	**Glanskool,** gestreep, kalsiet- en piriethoudend ; 2″ skalie by bo-ent en 4″ piriethoudende **steenkool** 12″ van bo-af uitgesluit	39	886 9	**Coal,** bright banded, calcitic and pyritic ; 2″ shale at top and 4″ pyritic **coal** 12″ from top excluded.
	N.G.	56	—	**N.S.**
E	**Glanskool**	8	—	**Coal,** bright.
	N.G.	7	—	**N.S.**
	N.G.	8	—	**N.S.**
	Glanskool en skalie . . .	18	—	**Coal,** bright, and shale.
	N.G.	2	895 2	**N.S.**
	N.G.	17	—	**N.S.**
	N.G.	65	—	**N.S.**
D	**Glanskool,** gestreep, en skalie	8	—	**Coal,** bright banded, and shale.
	N.G.	2½	—	**N.S.**
	Glanskool, gestreep, en skalie	3½	—	**Coal,** bright banded, and shale.
	N.G.	1½	—	**N.S.**
	Glanskool, gestreep, en skalie	6½	—	**Coal,** bright banded, and shale.
	N.G.	3	—	**N.S.**
	Glanskool, gestreep, en skalie	6	—	**Coal,** bright banded, and shale.
	N.G.	13	—	**N.S.**
C	**Glanskool** en koolstofhoudende skalielae om die beurt ; piriethoudend na onder	22	—	**Coal,** bright bands, and carbonaceous shale bands, alternating ; pyritic towards bottom.
	N.G.	66	—	**N.S.**
B	**Glanskool,** gestreep . . .	17	—	**Coal,** bright banded.
	N.G.	13	—	**N.S.**
A	**Glanskool,** gestreep, kalsiethoudend	11	—	**Coal,** bright banded, calcitic.
	N.G.	6	—	**N.S.**
	Glanskool, gestreep, kalsiethoudend	13	—	**Coal,** bright banded, calcitic.
	N.G.	15	919 3	**N.S.**
29	**N.G.**	2	950 4	**N.S.**
B	**Glanskool** met 2 skalielae	21	—	**Coal,** bright, with 2 shale bands.
	N.G.	16	—	**N.S.**
A	**Glanskool,** gestreep, met skaliedele ; kalsiethoudend	15	—	**Coal,** bright banded, with shale portions ; calcitic.
	N.G.	12	—	**N.S.**
	Glanskool, gestreep . . .	6	—	**Coal,** bright banded.
	N.G.	1½	—	**N.S.**
	Glanskool, gestreep . . .	2½	956 6	**Coal,** bright banded.

BOORGAT 36 : WELLINGTON 606 : BOREHOLE 36.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
O 12 G	11	—	1·7	38·4	29·1	30·8	21·6	7·5	40·0	16·0	3	2½
F	19	11·4	2·1	19·3	35·8	42·8	60·6	7·6	79·1	12·6	4½	4
E	16	—	2·4	21·3	34·1	42·2	52·3	8·5	77·7	14·3	3½	3½
D	25	11·5	2·5	18·1	33·8	45·6	63·9	7·1	81·7	11·1	2½	2½
C	10	—	2·3	24·6	31·9	41·2	47·0	8·7	72·9	15·1	3½	2½
B	13	—	2·4	23·2	32·7	41·7	50·0	8·8	73·9	14·8	4	3
A	28	—	2·4	25·9	31·8	39·9	48·5	6·4	65·5	12·3	3	2½
O 13 F	20	10·5	2·2	24·3	33·0	40·5	47·1	7·2	73·0	15·6	4	3½
E	22	10·5	2·2	24·2	32·1	41·5	47·1	7·2	69·7	13·6	4	4
D	14	—	2·0	31·3	30·5	36·2	38·7	8·0	56·8	14·7	5	4½
C	28	—	2·1	33·0	28·6	36·3	40·4	7·4	56·8	14·3	4½	2½
B	9	11·3	2·2	20·4	34·6	42·8	59·1	8·0	81·2	13·5	4	3
A	41	10·9	2·2	22·3	33·7	41·8	56·9	8·3	80·2	15·1	3½	2½
O 27 H	9	—	1·4	40·5	25·6	32·5	18·3	10·4	38·0	18·7	2½	2
G	19½	11·3	1·9	20·4	33·8	43·9	61·7	9·3	83·1	13·9	4½	4
F	27½	11·5	1·9	19·7	35·0	43·4	62·1	9·0	83·2	13·4	5	3½
E	12½	11·0	1·8	23·2	32·1	21·9	50·0	9·4	75·0	14·4	5	3½
D	59	10·6	1·8	24·7	32·3	41·2	48·3	9·9	75·0	14·9	4	3½
C	37	—	1·6	39·4	26·9	32·1	27·1	8·8	47·1	14·9	3½	3
B	23	11·3	2·0	20·0	33·9	44·1	63·4	8·0	79·8	11·6	5	5
A	27½	11·6	1·8	18·0	34·4	45·6	66·3	7·6	84·2	11·3	5	4½
O 28 F	33	—	1·7	25·6	33·2	39·5	46·8	9·1	70·6	14·2	5½	4½
E	26	10·8	1·3	22·7	35·2	40·8	57·7	9·0	75·3	12·8	5	3½
D	24	11·3	1·8	21·0	32·8	44·4	54·7	8·0	75·3	11·6	3½	2½
C	22	9·3	1·6	33·3	30·4	34·7	44·7	9·4	58·6	11·3	3½	2½
B	17	11·3	1·8	20·3	33·7	44·2	58·8	9·0	78·0	11·7	5½	5
A	24	11·8	2·0	18·0	34·2	45·8	66·6	8·6	85·2	11·8	4	3½

BOORGAT 37 : WOLVEPAN 459 : BOREHOLE 37.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
rond....................	12	0	12	0	Soil.
rond en gruis............	63	0	75	0	Soil and gravel.
oddersteen, grys met rooibruin dele	122	6	197	6	Mudstone, grey, with reddish brown portions.
anskool, gemeng na onder. Kalsiet-houdend en 2½" piriet 1" van bo af	1	4	198	10	**Coal,** bright, mixed towards bottom, calcitic and 2½" pyrites 1" from top.
alie, grys-blou..........	6	2	—		Shale, greyish blue.
eenkool, vuil, piriethoudend		2½	—		**Coal,** dirty, pyritic.
eenkool, gemeng, skalie hier en daar, kalsiet- en piriethoudend na onder	1	0½	206	3	**Coal,** mixed, shale in parts, calcitic and pyritic towards bottom.
alie, blou................	3	8	—		Shale, blue.
eenkool, baie skalieagtig..		3	—		**Coal,** very shaly.
anskool en gemengde **steenkoollae,** fyngestreep, om die beurt, kalsiethoudend	1	3	211	5	**Coal,** bright bands and mixed **coal** bands, finely banded, alternating, calcitic.
alie, blou...............	3	2	—		Shale, blue.
anskool, met skalie hier en daar	1	7	216	2	**Coal,** bright, with shale in places.
alie en skalieagtige **steenkool**		5	—		Shale and shaly **coal.**
anskool, fyngestreep, piriethoudend by bo-ent		4	216	11	**Coal,** bright, finely banded, pyritic towards top.
alie met **steenkool** by bo-ent		5	—		Shale with **coal** towards top.
anskool, en dowwe **steenkool, glanskool** oorwegend	1	3	218	7	**Coal,** bright, and dull **coal,** mainly bright **coal.**
alie, blou, met 'n 6" **steenkoollaag** naby onder-ent	3	0	—		Shale, blue, with a 6" **coal** band near bottom.
anskool, kalsiethoudend..		9	222	4	**Coal,** bright, calcitic.
alie, koolstofhoudend....		8	—		Shale, carbonaceous.
anskool, met skaliedele..		6½	223	6½	**Coal,** bright, with shale portions.
alie, koolstofhoudend....		2	—		Shale, carbonaceous.
anskool..................		1	223	9½	**Coal,** bright.
alie, koolstofhoudend....		2½	—		Shale, carbonaceous.
enkool, gemeng, skalieagtig, met 'n ½" modderagie		4	224	4	**Coal,** mixed, shaly, with a ½" mudband.
nskool hoofsaaklik......		2	224	8	**Coal,** mainly bright.
alie, koolstofhoudend, met n bietjie **steenkool**		7	—		Shale, carbonaceous, with a little **coal.**
enkool en skalie........		7½	225	10½	**Coal,** and shale.
alie met baie min **steenkool**		7½	—		Shale with very little **coal.**
enkool en skalie........		8½	227	2½	**Coal** and shale.
alie met baie min **steenkool**		8	—		Shale with very little **coal.**
nskool en skalie........		6½	228	5	**Coal,** bright, and shale.
alie met **steenkoollagies**..	2	1	—		Shale with **coal** bands.
alie, koolstofhoudend, met **lanskoolstrepies**		8	—		Shale, carbonaceous with bright **coal** streaks.
nskool, met skaliedele, en " skalie met modderlontjies by bo-ent	1	1	232	3	**Coal,** bright, with shale portions, and 1" shale with clay pellets at top.
alie, koolstofhoudend met yn **glanskoolbandjies.** Glylakke naby bo-ent		10½	—		Shale, carbonaceous, with fine bright **coal** bands. Slickensides near top.
nskool, met skaliedele by o-ent, ½" piriet, 3" van o-af		8	233	9½	**Coal,** bright, with shale portions at top; ½" pyrites, 3" from top.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
Skalie, koolstofhoudend, met 'n bietjie **glanskool** by onder-ent	1	1	—		Shale, carbonaceous, with little bright **coal** at bottom
Glanskool..................		5	235	3½	**Coal,** bright.
Skalie, koolstofhoudend, met enkele **glanskoollae** by onder-ent		6½	—		Shale, carbonaceous, with few bright **coal** bands a bottom.
Glanskool, met skaliedele bo-aan	2	6	238	4	**Coal,** bright, with shale portions at top.
Skalie....................		6	—		Shale.
Steenkool, gemeng, met skaliedele		9	239	7	**Coal,** mixed, with shale portions.
Skalie, koolstofhoudend....		1½	—		Shale, carbonaceous.
Glanskool en skalie........		1½	239	10	**Coal,** bright, and shale.
Skalie, koolstofhoudend....		1	—		Shale, carbonaceous.
Steenkool, gemeng, en skalie		3	240	2	**Coal,** mixed, and shale.
Skalie....................		6	—		Shale.
Skalie en **glanskool**........	3	3	—		Shale and bright **coal.**
Glanskool en skalie, met 'n 1" vitrietlagie by bo-ent		10	244	9	**Coal,** bright, and shale, with 1" vitrain band at top.
Skalie, koolstofhoudend met 'n bietjie **steenkool**		7	—		Shale, carbonaceous, with little **coal.**
Steenkool, gemeng, met skaliedele	1	10	247	2	**Coal,** mixed, with shal portions.
Skalie....................		4	—		Shale.
Steenkool, skalieagtig......		8½	—		**Coal,** shaly.
Glanskool..................		2	—		**Coal,** bright.
Skalie en **glanskool**........		9½	—		Shale and bright **coal.**
Glanskool, fyngelaagd in dele	1	1	250	3	**Coal,** bright, finely banded i in parts.
Skalie....................		2	—		Shale.
Glanskool, baie piriet by onder-ent	1	3	251	8	**Coal,** bright, very pyritic a bottom.
Skalie, koolstofhoudende met 'n paar **glanskoolstrepies**		4½	—		Shale, carbonaceous, with few bright **coal** stringers.
Glanskool, met skaliedele by bo-ent, ½" skalielagie, 8" van bo-af	2	1½	254	2	**Coal,** bright, with shale portions at bottom, ½" shal band, 8" from top.
Skalie, koolstofhoudend....		2½	—		Shale, carbonaceous.
Glanskool, met skalie hier en daar	1	7	255	11½	**Coal,** bright, with shale i parts.
Skalie....................		2	—		Shale.
Vitriet....................		1	—		Vitrain.
Skalie....................		8	—		Shale.
Glanskool, met skaliedele..		6	257	4½	**Coal,** bright, with shale portions.
Skalie....................		2½	—		Shale.
Steenkool, gemeng, met skaliedele, piriethoudend		10	258	5	**Coal,** mixed, with shale portions, pyritic.
Skalie en **steenkool**........		8	—		Shale and **coal.**
Glanskool, met skalie hier en daar		7	259	8	**Coal,** bright, with shale i parts.
Skalie met 'n bietjie **steenkool**		7	—		Shale, with a little **coal.**
Glanskool, met skaliedele, piriethoudend		10	261	1	**Coal,** bright, with shale portions, pyritic,
Skalie....................		2	261	3	Shale.
Skalie, met **steenkoollagies**.	2	7	—		Shale, with **coal** bands.
Glanskool, met skalie in dele		9½	264	7½	**Coal,** bright, with shale i parts.
Skalie, met enkele **steenkoollagies**	7	1½	—		Shale, with a few **coal** bands
Kalksteenlaag..............		4	—		Limestone-band.
Skalie....................	1	3	—		Shale.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
alie, koolstofhoudend, en **glanskool**	1	2	—		Shale, carbonaceous, and bright **coal.**
anskool, met skaliedele en korrelrige **steenkool,** 2″ koolstofhoudende skalie 3″ van bo-af en 1″ skalie, 17″ van bo-af	4	6	279	0	**Coal,** bright, with shale portions and gritty **coal,** 2″ carbonaceous shale 3″ from top and 1″ shale, 17″ from top.
alie, met enkele **steenkool-lagies**	5	10	—		Shale, with a few **coal** bands.
anskool, skalie en skalie-agtige **steenkool**	10	8	—		**Coal,** bright, shale and shaly **coal.**
alie, koolstofhoudend		4	—		Shale, carbonaceous.
eenkool, gemeng, met skaliedele	2	4	298	2	**Coal,** mixed, with shale portions.
alie		10	—		Shale.
anskool		1½	299	1½	**Coal,** bright.
alie		3	—		Shale.
eenkool, skalieagtig		2½	299	7	**Coal,** shaly.
alie en **steenkool**		3½	—		Shale and **coal.**
anskool en skalieagtige **steenkool**		3	300	1½	**Coal,** bright, and shaly **coal.**
eenkool, skalieagtig		2	—		**Coal,** shaly.
anskool, en skalie		3	300	6½	**Coal,** bright, and shale.
eenkool, skalieagtig		2	—		**Coal,** shaly.
anskool, met skaliedele	1	6	302	2½	**Coal,** bright, with shale portions.
alie		0½	—		Shale.
anskool, met skalie hier en daar	1	0	303	3	**Coal,** bright, with shale in parts.
alie, koolstofhoudend		2½	—		Shale, carbonaceous.
anskool, met skaliedele	1	4½	304	10	**Coal,** bright, with shale portions.
alie, koolstofhoudend, **glanskool,** dowwe **steenkool,** skalieagtige **steenkool** en skalie	4	4	—		Shale, carbonaceous, bright **coal,** dull **coal,** shaly **coal** and shale.
enkool, skalieagtig, met modderklontjies		11	—		**Coal,** shaly, with clay pellets.
alie en **glanskool**		4	—		Shale, and bright **coal.**
anskool, met skaliedele		7½	311	0½	**Coal,** bright, with shale portions.
alie		2½	—		Shale.
anskool en skalie		11	312	2	**Coal,** bright, and shale.
alie en skalieagtige **steenkool**		8½	—		Shale and shaly **coal.**
enkool, skalieagtig		3	313	1½	**Coal,** shaly.
enkool en skalie	1	0	—		**Coal** and shale.
enkool en skalie		10	314	11½	**Coal** and shale.
alie met 'n bietjie **steenkool**		4½	—		Shale, with a little **coal.**
enkool, gemeng, met kaliedele		5	315	9	**Coal,** mixed, with shale portions.
alie		4	—		Shale.
enkool, gemeng, met kaliedele		5	316	6	**Coal,** mixed, with shale portions.
alie		2	—		Shale.
enkool, gemeng, met kaliedele		4½	317	0½	**Coal,** mixed, with shale portions.
lie en **steenkool**	2	0½	319	1	Shale and **coal.**
enkool, skalieagtig		6	319	7	**Coal,** shaly.
lie		4	—		Shale.
enkool, skalieagtig		4	320	3	**Coal,** shaly.
lie		5	—		Shale.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Steenkool, skalieagtig......		4	321	0	**Coal,** shaly.
Skalie....................		2	—		Shale.
Steenkool, skalieagtig......		4	321	6	**Coal,** shaly.
Skalie....................	1	5	—		Shale.
Steenkool, skalieagtig......		4	323	3	**Coal,** shaly.
Skalie, koolstofhoudend....		4	—		Shale, carbonaceous.
Glanskool.................		3	323	10	**Coal,** bright.
Skalie, koolstofhoudend....		3	—		Shale, carbonaceous.
Glanskool, met skaliedele...		10	324	11	**Coal,** bright, with shal portions.
Skalie en **glanskool**........		4	—		Shale and bright **coal.**
Glanskool.................		2	325	5	**Coal,** bright.
Skalie, koolstofhoudend....		2	—		Shale, carbonaceous.
Glanskool, met skaliedele...		5	326	0	**Coal,** bright, with shal portions.
Glanskool.................		5	326	5	**Coal,** bright.
Glanskool, met skaliedele...		1½	326	6½	**Coal,** bright, with shal portions.
Skalie, koolstofhoudend....		1	—		Shale, carbonaceous.
Glanskool.................		5	327	0½	**Coal,** bright.
Skalie, koolstofhoudend....		1	—		Shale, carbonaceous.
Steenkool, baie vuil........		6	—		**Coal,** very dirty.
Skalie, koolstofhoudend....		1	—		Shale, carbonaceous.
Glanskool, skalie hier en daar		8½	328	5	**Coal,** bright, shale in parts.
Skalie, met **steenkoollagies**.	5	3	—		Shale, with **coal** bands.
Glanskool, 1″ koolstofhoudende skalie 2″ van bo-af	1	4	335	0	**Coal,** bright, 1″ carbonaceou shale 2″ from top.
Skalie, **steenkoolhoudend** hier en daar	2	9	—		Shale, **coaly** in parts.
Glanskool, met modderklontjies en skalie hier en daar	1	9	339	6	**Coal,** bright, with clay pellet and shale in parts.
Skalie, **steenkoolhoudende**..	1	7	—		Shale, **coaly.**
Skalie, koolstofhoudend....		0½	—		Shale, **coaly.**
Glanskool, skalie hier en daar	1	4½	342	6	**Coal,** bright, shale in parts.
Skalie met **steenkoollagies** en baie modderklontjies	9	3	—		**Coal,** bright, shale in parts shale with **coal** bands an many clay pellets.
Skalie, koolstofhoudend....		0½	—		Shale, carbonaceous.
Glanskool, met skaliedele na onder	1	4	353	1½	**Coal,** bright, with shale por tions towards bottom.
Skalie, koolstofhoudend....		0½	—		Shale, carbonaceous.
Skalie, koolstofhoudend, met baie **steenkoollagies** van 1″ tot 3″ dik	22	1	—		Shale, carbonaceous, wit many **coal** bands from 1″ t 3″ thick.
Steenkool, vuil............	1	10	377	1	**Coal,** dirty.
Steenkool, korrelrig........		5	—		**Coal,** gritty.
Glanskool, met skaliedele...		8	378	0	**Coal,** bright, with shal portions.
Skalie, koolstofhoudend, met baie **steenkoollagies** van 1″ tot 3″ dik	23	7	—		Shale, carbonaceous, wit many **coal** bands from 1 to 3″ thick.
Skalie, koolstofhoudend, met 'n paar **steenkoollagies** en modderklontjies	1	1½	—		Shale, carbonaceous, with few **coal** bands and clay pellets.
Steenkool, gemeng, met skaliedele en modderklontjies	1	0	403	8½	**Coal,** mixed, with shal portions and clay pellets.
Skalie, koolstofhoudend, en skalieagtige **steenkool**	1	7½	405	4	Shale, carbonaceous, and shaly **coal.**
Steenkool, piriethoudend, met modderklontjies		11	406	3	**Coal,** pyritic, with clay pellets.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
kool, met modderklont-		8	406	11	**Coal,** bright, with clay pellets.
, koolstofhoudend, met bietjie **steenkool** in erste deel	5	6	—		Shale, corbonaceous, with a little **coal** in bottom portion.
, koolstofhoudend en **nkoolagtige** skalielae	3	7	—		Shale, bands, carbonaceous, and **coaly** shale bands.
en **steenkoolagtige** lie	2	6	—		Shale and **coaly** shale.
e, koolstofhoudend....	1	2	—		Shale, carbonaceous.
kool, baie skalieagtig t 'n paar vitrietlae	15	1	434	9	**Coal,** very shaly, with a few vitrain bands.
teen, vuilwit, grofkor- ige, met 2 fynkorrelrige, s sandsteendele in ldel	9	9	—		Sandstone, dirty white, coarse-grained, with 2 fine-grained, grey portions in middle.
, grys...............	2	2	—		Shale, grey.
teen, swart met kool- fhoudende dele en talle ot verspreide kwarts- rels	12	8	—		Sandstone, black with carbonaceous portions and many big, scattered quartz pebbles.
teen, grys, fynkorrelrig, aag	2	10	—		Sandstone, grey, fine-grained, laminated.
teen, vuilwit, fynkor- ig	1	4	—		Sandstone, dirty white, fine-grained.
, sanderig bo-aan, grys	2	10	—		Shale, sandy at top, grey.
ersteen, grys.........		6	—		Mudstone, grey.
teen, vuilwit, middel- relrig	1	2	—		Sandstone, dirty white, medium-grained.
, sanderig..........		11	—		Shale, sandy.
steen en skalie, beur- ngs	1	7	—		Sandstone, and shale, alternating.
steen, wit, middelkor- ig	1	4	—		Sandstone, white, medium-grained.
steen, grys tot grys- art, fynkorrelrig	4	2	—		Sandstone, grey to grey black, fine-grained.
steen, wit tot vuilwit, fkorrelrig tot middel- relrig, veldspaties	8	8	—		Sandstone, white to dirty white, coarse- to medium-grained, feldspathic.
steen en skalie met baie dderklontjies en 'n paar **nskoollagies**	2	0	487	2	Sandstone and shale, with many clay pellets and a few bright **coal** bands.
e, grys en swart, met derige dele bo-aan, deels lstofhoudend	13	9	—		Shale, grey and black, with sandy portions at top; portions are carbonaceous.
e, koolstofhoudend en lieagtige **steenkool,** ens piriethoudend	4	3	505	2	Shale, carbonaceous and shaly **coal,** slightly pyritic.
e, grys...............		9	—		Shale, grey.
e, koolstofhoudend, en lieagtige **steenkool,** met korrelrige **glanskool** 8″ n onderaf	3	9	—		Shale, carbonaceous, and shaly **coal,** with 3″ gritty bright **coal** 8″ from bottom.
e met modderklontjies.		7	—		Shale, with clay pellets.
steen, koolstofhoudend		6	—		Sandstone, carbonaceous.
e, met verspreide artskorrels		8	—		Shale, with scattered quartz grains.
e, koolstofhoudend, en lieagtige **steenkool,** iethoudend en glansend r en daar	13	8	—		Shale, carbonaceous, and shaly **coal,** pyritic and bright in places.
e, met 6″ **steenkool-** **ige** skalie in middel	2	0	—		Shale, with 6″ **coaly** shale in middle.
e, **steenkoolagtig**......		10	—		Shale, **coaly.**

Bg. 37 (*Verv.*) B.H. 37 (*Contd.*

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
Steenkool, skalieagtig......	2 0	529 11	**Coal,** shaly.
Skalie, koolstofhoudend....	8	—	Shale, carbonaceous.
Sandsteen, swart, met talle grooterige, verspreide kwartskorrels	7 9	—	Sandstone, black, with m big scattered quartz gra
Sandsteen, koolstofhoudend in dele, effens mikadraend, baie piriethoudend na onder, fynkorrelrig	10 10	—	Sandstone, carbonaceous places, slightly micace very pyritic towards bot fine-grained.
Sandsteen, wit, middelkorrelrig	36 4	—	Sandstone, white, medi grained.
Skalie, sanderig...........	2 4	—	Shale, sandy.
Steenkool, dof, **steenkoolagtige** skalie en koolstofhoudende skalie	1 2	590 3	**Coal,** dull, **coaly** shale, carbonaceous shale.
Sandsteen................	2 9	593 0	Sandstone.

Bg. 37 (*Verv.*) B.H. 37 (*Contd.*

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
N 341 F	**Glanskool,** gemeng na onder, kalsiethoudend, en 2½″ piriet 1″ van bo-af uitgesluit	16	198 10	**Coal,** bright, m towards bottom, citic, and 2½″ py 1″ from top exclu
	N.G..................	74	—	**N.S.**
	N.G..................	2½	—	**N.S.**
E	**Steenkool,** gemeng, hier en daar skalie, kalsiet- en piriethoudend na onder	12½	206 3	**Coal,** mixed, shal places, calcitic pyritic tow bottom.
	N.G..................	44	—	**N.S.**
	N.G..................	3	—	**N.S.**
D	**Glanskoollae** en gemengde **steenkoollae,** fyngestreep om die beurt, kalsiethoudend	15	211 5	**Coal,** bright, bands, mixed **coal** ba finely banded, a nating, calcitic.
	N.G..................	38	—	**N.S.**
	Glanskool, met skalie hier en daar	19	216 2	**Coal,** bright, with s in places.
	N.G..................	5	—	**N.S.**
C	**Glanskool,** fyngestreep, piriethoudend by bo-ent	4	216 11	**Coal,** bright, fi banded, pyritic top.
	N.G..................	5	—	**N.S.**
	Glanskool en dowwe **steenkool, glanskool** oorwegend	15	218 7	**Coal,** bright, and **coal,** mainly b **coal.**
	N.G..................	36	—	**N.S.**
B	**Glanskool,** kalsiethoudend	9	222 4	**Coal,** bright, calcit
	N.G..................	8	—	**N.S.**

o. van onster .-N.-I. F.R.I. nple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
A	**Glanskool,** met skaliedele	6½	223 6½	**Coal,** bright, with shale portions.
	N.G.	2	—	**N.S.**
	Glanskool	1	223 9½	**Coal,** bright.
	N.G.	2½	—	**N.S.**
	Steenkool, gemeng, skalieagtig met 'n ½″ modderlagie uitgesluit	4	224 4	**Coal,** mixed, shaly, with a ½″ mudband excluded.
	Glanskool hoofsaaklik.	4	224 8	**Coal,** mainly bright.
	N.G.	7	—	**N.S.**
42 D	**Steenkool** en skalie	7½	225 10½	**Coal** and shale.
	N.G.	7½	—	**N.S.**
	Steenkool en skalie	8½	227 2½	**Coal** and shale.
	N.G.	8	—	**N.S.**
	Glanskool en skalie	6½	228 5	**Coal,** mainly bright and shale.
	N.G.	25	—	**N.S.**
	N.G.	8	—	**N.S.**
C	**Glanskool,** met skaliedele, en 1″ skalie met modderklontjies bo	13	232 3	**Coal,** bright, with shale portions and 1″ shale with clay pellets at top.
42	**N.G.**	10½	—	**N.S.**
C	**Glanskool,** met skaliedele by bo-ent, ⅛″ piriet, 3″ van bo-af uitgesluit	8	233 9½	**Coal,** bright, with shale portions at top, ⅛″ pyrites, 3″ from top excluded.
	N.G.	13	—	**N.S.**
	Glanskool	5	235 3½	**Coal,** bright.
	N.G.	6½	—	**N.S.**
B	**Glanskool,** met skaliedele bo-aan	30	238 4	**Coal,** bright, with shale portions at top.
	N.G.	6	—	**N.S.**
A	**Steenkool,** gemeng, met skaliedele	9	239 7	**Coal,** mixed, with shale portions.
	N.G.	1½	—	**N.S.**
	Glanskool en skalie	1½	239 10	**Coal,** bright, and shale
	N.G.	1	—	**N.S.**
	Steenkool, gemeng, en skalie	3	240 2	**Coal,** mixed, and shale.
	N.G.	6	—	**N.S.**
13	**N.G.**	39	—	**N.S.**
D	**Glanskool** en skalie, met 'n 1″ vitrietlaag by bo-ent	10	244 9	**Coal,** bright, and shale, with a 1″ vitrain banp at top.
	N.G.	7	—	**N.S.**
	Steenkool, gemeng, met skaliedele	22	247 2	**Coal,** mixed, with shale portions.
	N.G.	4	—	**N.S.**
	N.G.	8½	—	**N.S.**
	N.G.	2	—	**N.S.**
	N.G.	9½	—	**N.S.**
C	**Glanskool,** fyngelaagd in dele	13	250 3	**Coal,** bright, finely banded in parts.
	N.G.	2	—	**N.S.**
	Glanskool, baie piriet by onder-ent	15	251 8	**Coal,** bright, very pyritic at bottom.
	N.G.	4½	—	**N.S.**

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
B	**Glanskool,** met skaliedele by bo-ent, ½" skalielaag, 8" van bo-af, uitgesluit	25½	254 2	**Coal,** bright, with sha portions at top, shale band, 8" fro top excluded.
	N.G.	2½	—	**N.S.**
	Glanskool, met skalie hier en daar	19	255 11½	**Coal,** bright, with sha in parts.
	N.G.	2	—	**N.S.**
	N.G.	1	—	**N.S.**
	N.G.	8	—	**N.S.**
A	**Glanskool** met skaliedele	6	257 4½	**Coal,** bright, with sha portions.
	N.G.	2½	—	**N.S.**
	Steenkool, gemeng, met skaliedele, piriethoudend	10	258 5	**Coal,** mixed, with sha- portions pyritic.
	N.G.	8	—	**N.S.**
	Glanskool, met skalie hier en daar	7	259 8	**Coal,** bright, with sha in parts.
	N.G.	7	—	**N.S.**
	Glanskool, met skaliedele, piriethoudend	10	261 1	**Coal,** bright, with sha portions, pyritic.
	N.G.	2	—	**N.S.**
N 344	**N.G.**	31	—	**N.S.**
C	**Glanskool,** met skalie hier en daar	9½	264 7½	**Coal,** bright, with sha in parts.
	N.G.	85½	—	**N.S.**
	N.G.	4	—	**N.S.**
	N.G.	15	—	**N.S.**
	N.G.	14	—	**N.S.**
B	**Glanskool,** met skaliedele en korrelrige **steenkool**; 2" koolstofhoudende skalie 3" van bo-af; 1" skalie, 17" van bo-af, en 3" korrelrige **steenkool,** uitgesluit	54	279 0	**Coal,** bright, with sha portions and grit **coal**; 2" carbonac ous shale 3" from to 1" shale, 17" fro top, and 3" grit **coal,** excluded.
	N.G.	70	—	**N.S.**
	N.G.	128	—	**N.S.**
	N.G.	4	—	**N.S.**
A	**Steenkool,** gemeng, met skalie dele	28	298 2	**Coal,** mixed, with sha portions.
N 345	**N.G.**	10	—	**N.S.**
B	**Glanskool**	1½	299 1½	**Coal,** bright.
	N.G.	3	—	**N.S.**
	Steenkool, skalieagtig.	2½	299 7	**Coal,** shaly.
	N.G.	3½	—	**N.S.**
	Glanskool en skalieagtige **steenkool**	3	300 1½	**Coal,** and shaly **coal.**
	N.G.	2	—	**N.S.**
	Glanskool en skalie...	3	300 6½	**Coal,** bright and shal
	N.G.	2	—	**N.S.**
	Glanskool met skaliedele	18	302 2½	**Coal,** bright, with sha portions.
	N.G.	0½	—	**N.S.**
	Glanskool met skalie hier en daar	12	303 3	**Coal,** bright, with sha in parts.
	N.G.	2½	—	**N.S.**
	Glanskool met skaliedele	16½	304 10	**Coal,** bright, with sha portions.

No. van monster B.-N.-I. F.R.I. ample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
	N.G.	52	—	**N.S.**
	N.G.	11	—	**N.S.**
	N.G.	4	—	**N.S.**
	Glanskool, met skaliedele	7½	311 0½	**Coal,** bright, with shale portions.
	N.G.	2½	—	**N.S.**
A	**Glanskool** en skalie...	11	312 2	**Coal,** bright, and shale.
	N.G.	8½	—	**N.S.**
	Steenkool, skalieagtig.	3	313 1½	**Coal,** shaly.
	N.G.	12	—	**N.S.**
346	**Steenkool** en skalie...	10	314 11½	**Coal** and shale.
	N.G.	4½	—	**N.S.**
B	**Steenkool,** gemeng, met skaliedele	5	315 9	**Coal,** mixed, with shale portions.
	N.G.	4	—	**N.S.**
	Steenkool, gemeng, met skaliedele	5	316 6	**Coal,** mixed, with shale portions.
	N.G.	2	—	**N.S.**
	Steenkool, gemeng, met skaliedele	4½	317 0½	**Coal,** mixed, with shale portions.
	N.G.	24½	—	**N.S.**
	Steenkool, skalieagtig.	6	319 7	**Coal,** shaly.
	N.G.	4	—	**N.S.**
	Steenkool, skalieagtig.	4	320 3	**Coal,** shaly.
A	**N.G.**	5	—	**N.S.**
	Steenkool, skalieagtig.	4	321 0	**Coal,** shaly.
	N.G.	2	—	**N.S.**
	Steenkool, skalieagtig.	4	321 6	**Coal,** shaly.
	N.G.	17	—	**N.S.**
	Steenkool, skalieagtig.	4	323 3	**Coal,** shaly.
399	**N.G.**	4	—	**N.S.**
	Glanskool	3	323 10	**Coal,** bright.
G	**N.G.**	3	—	**N.S.**
	Glanskool, met skaliedele	10	324 11	**Coa.,** bright, with shale portions.
	N.G.	4	—	**N.S.**
	Glanskool	2	325 5	**Coal,** bright.
	N.G.	2	—	**N.S.**
F	**Glanskool,** met skaliedele	5	326 0	**Coal,** bright, with shale portions.
	Glanskool	5	326 5	**Coal,** bright.
	Glanskool, met skaliedele	1½	326 6½	**Coal,** bright, with shale portions.
	N.G.	1	—	**N.S.**
	Glanskool	5	327 0½	**Coal,** bright.
	N.G.	1	—	**N.S.**
	N.G.	6	—	**N.S.**
	N.G.	1	—	**N.S.**
E	**Glanskool,** skalie in dele	8½	328 5	**Coal,** bright, shale in places.
	N.G.	63	—	**N.S.**
D	**Glanskool,** 1″ koolstofhoudende skalie 2″ van bo-af uitgesluit	16	335 0	**Coal,** bright, 1″ carbonaceous shale 2″ from top excluded.
	N.G.	33	—	**N.S.**

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
C	**Glanskool,** met modderklontjies en skalie in dele	21	339 6	**Coal,** bright, with clay pellets and shale in parts.
	N.G.	19	—	**N.S.**
	N.G.	0½	—	**N.S.**
B	**Glanskool,** skalie hier en daar	16½	342 6	**Coal,** bright, shale in parts.
	N.G.	111	—	**N.S.**
	N.G.	0½	—	**N.S.**
A	**Glanskool,** met skaliedele na onder	16	353 1½	**Coal,** bright, with shale portions towards bottom.
	N.G.	0½	—	**N.S.**
N 400 D	**Steenkool,** vuil.......	20	377 1	**Coal,** dirty.
	N.G.	5	—	**N.S.**
C	**Glanskool,** met skaliedele	8	378 0	**Coal,** bright, with shal portions.
	N.G.	283	—	**N.S.**
	N.G.	13½	—	**N.S.**
B	**Steenkool,** gemeng, met skaliedele en modderklontjies	12	403 8½	**Coal,** mixed, with shal portions and cla pellets.
	N.G.	19½	—	**N.S.**
	N.G.	11	—	**N.S.**
A	**Glanskool,** met modderklontjies	8	406 11	**Coal,** bright, with cla pellets.
	N.G.	66	—	**N.S.**
N 401	**Steenkool,** skalieagtig.	24	529 11	**Coal,** shaly.

BOORGAT 37 : WOLVEPAN 459 : BOREHOLE 37.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persen tasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Ash, 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
N 341 F	13½	10·0	2·4	25·3	34·0	38·3	54·9	6·0	64·9	8·2	3½	2
E	12½	10·2	1·3	26·5	34·7	37·5	45·7	10·1	70·9	14·3	4½	2½
D	15	10·9	2·6	21·8	33·7	41·9	54·5	8·6	78·5	13·8	3½	2½
C	38	11·1	2·7	20·9	32·4	44·0	61·2	9·4	81·8	14·2	3	2½
B	9	11·2	3·0	18·5	35·0	43·5	66·2	5·9	78·6	9·3	3½	2½
A	15	10·5	2·4	23·6	31·9	42·1	49·7	7·4	70·0	13·4	2½	2
N 342 D	22½	—	2·2	27·3	31·1	39·4	41·2	7·3	62·2	11·9	3	3
C	25½	11·0	2·6	19·9	32·8	44·7	59·7	5·4	72·9	9·1	2½	2½
B	30	10·9	2·4	21·9	32·7	43·0	58·2	7·9	76·2	12·2	3	3
A	13½	—	2·4	27·9	28·7	41·0	40·5	7·3	66·3	14·1	2½	2
N 343 D	32	—	2·6	25·5	30·9	41·0	47·1	7·5	66·7	12·3	2	2½
C	28	11·5	3·0	18·2	32·7	46·1	65·0	7·1	81·4	10·6	2½	2
B	44	11·7	2·8	17·3	33·7	46·2	69·3	7·6	84·6	10·9	3	3
A	33	10·5	2·2	24·2	32·1	41·5	50·1	8·4	72·2	12·9	4	3½
N 344 C	9½	10·9	2·3	22·7	34·0	41·0	57·6	10·0	77·9	14·4	3	2½
B	48	10·7	2·3	22·4	34·7	40·6	55·9	9·4	78·2	14·2	3	3
A	28	—	2·0	29·6	28·9	39·5	37·4	6·6	56·2	11·1	3	2½

BOORGAT 37 : WOLVEPAN 459 : BOREHOLE 37.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
N 345 B	56½	—	2·4	27·9	30·0	39·7	36·8	6·7	58·0	11·8	3½	3
A	21½	—	2·5	25·5	30·4	41·6	48·6	6·2	64·7	10·9	3½	3
N 346 B	24½	—	2·3	27·1	29·5	41·1	43·7	6·8	60·0	11·2	3	2½
A	22	10·4	2·6	24·3	31·1	42·0	49·6	7·0	65·6	10·6	2½	2
N 399 G	13	10·5	3·0	24·6	32·0	42·7	48·2	5·2	63·7	9·1	2½	1
F	18½	10·4	2·9	25·9	31·1	42·3	46·8	5·2	65·0	8·5	2½	2
E	8½	10·4	2·8	23·2	33·4	40·6	52·8	6·7	70·9	10·4	2	1
D	15	11·7	3·2	18·2	33·5	47·0	62·5	5·9	80·0	9·6	2½	2
C	21	11·8	3·0	19·0	35·4	43·9	61·1	5·5	76·7	8·6	2½	2
B	16½	11·1	2·9	21·4	34·2	43·2	51·9	6·2	72·6	10·7	2½	1½
A	16	12·0	3·3	15·0	35·4	48·1	71·9	4·7	81·3	6·4	2	1
N 400 D	20	—	2·5	30·5	30·6	38·6	29·1	7·0	54·4	12·7	1½	1
C	8	10·9	3·0	21·9	32·8	43·8	40·1	6·1	69·4	9·6	2	1½
B	12	10·7	2·8	21·0	34·5	41·7	51·4	4·5	69·9	9·6	2½	1½
A	8	12·3	3·0	12·6	36·2	48·2	79·3	4·5	83·1	5·2	3½	3½
N 401	24	—	2·2	34·7	21·8	41·3	5·8	—	29·4	15·4	—	1 P

BOORGAT 38 : CANADA 990 : BOREHOLE 38.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered. *Vt.* *Ft.*	*Dm.* *In.*	Ware diepte. True Depth. *Vt.* *Ft.*	*Dm.* *In.*	Nature of Strata.
Sand	7	0	7	0	Sand.
Moddersteen	62	0	69	0	Mudstone.
Steenkool, hoofsaaklik **glanskool,** met 'n bietjie skalie hier en daar		9	69	9	**Coal,** mainly bright, with a little shale in parts.
Skalie, koolstofhoudend		3	—		Shale, carbonaceous.
Glanskool, fyngestreep hier en daar; 1″ koolstofhoudende skalie 3″ van onderaf	1	2	71	2	**Coal,** bright, finely banded in parts; 1″ carbonaceous shale 3″ from bottom.
Skalie, koolstofhoudend		5	—		Shale, carbonaceous.
Glanskool		11	72	6	**Coal,** bright.
Skalie	3	2	—		Shale.
Glanskool, fyngestreep, kalsiethoudend (5″ kern vermis)	1	3	77	4	**Coal,** bright, finely banded, calcitic (5″ core missing).
Skalie		10	—		Shale.
Skalie, koolstofhoudend, en gemengde **steenkool** en skalie	18	8	—		Shale, carbonaceous, and mixed **coal** and shale.
Glanskool, met skaliedele		9	97	7	**Coal,** bright, with shale portions.
Skalie, koolstofhoudend, en gemengde **steenkool** en skalie	5	7	—		Shale, carbonaceous, and mixed **coal** and shale.
Glanskool, met skaliedele, kalsiethoudend en piriethoudend	1	11	105	1	**Coal,** bright, with shale portions, calcitic and pyritic.
Skalie, koolstofhoudend		3	—		Shale, carbonaceous.
Glanskool, piriethoudend en kalsiethoudend		3	105	7	**Coal,** bright, pyritic and calcitic.
Skalie, koolstofhoudend, en **steenkool**		5	—		Shale, carbonaceous and **coal.**
Glanskool, met skaliedele	1	0	107	0	**Coal,** bright, with shale portions.
Skalie, koolstofhoudend		2½	—		Shale, carbonaceous.
Glanskool, kalsiethoudend, met baie skaliedele	1	8½	108	11	**Coal,** bright, calcitic, with numerous shale bands.
Steenkool, baie skalieagtig, en koolstofhoudende skalie	1	11	—		**Coal,** very shaly, and carbonaceous shale.
Glanskool, skalieagtig hier en daar	1	11	112	9	**Coal,** bright, shaly in portions.
Skalie, koolstofhoudend, met 'n bietjie **steenkool**		9	—		Shale, carbonaceous, with a little **coal.**
Skalie, met **steenkoollagies**	4	2	—		Shale, with **coal** bands.
Glanskool, met baie skalielae		9	118	5	**Coal,** bright, with many shale bands.
Skalie, koolstofhoudend		2½	—		Shale, carbonaceous.
Glanskool		6	119	1½	**Coal,** bright.
Skalie, koolstofhoudend, met 'n bietjie **steenkool**		2	—		Shale, carbonaceous, with a little **coal.**
Glanskool		4½	119	8	**Coal,** bright.
Skalie		4	—		Shale.
Glanskool, met 'n paar skalielae aan bo-ent en onder-ent		6	120	6	**Coal,** bright, with a few shale bands at the top and bottom.
Skalie	4	6	—		Shale.
Glanskool, met baie skalielae		10	125	10	**Coal,** bright, with many shale bands.
Skalie, met **steenkoollagies**		8	—		Shale, with **coal** bands.
Steenkool, gemeng, met skalie hier en daar	1	1	127	7	**Coal,** mixed, with shale in portions.

Bg. 38 (*Verv.*) B.H. 38 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
Skalie, met **steenkoollae**....	3	2½	—		Shale, with **coal** bands.
Glanskool, met skalielae....	2	8½	133	6	**Coal,** bright, with shale por tions.
Skalie, met baie modderklontjies en 'n bietjie **steenkool**		9	—		Shale, with many clay pellet and a little **coal.**
Glanskool, gemeng met sandkorrels in boonste 9", en gemeng met skalie in middelste 10"; fyngelaagd na onder	2	4	136	7	**Coal,** bright, mixed with san grains in top 9", and mixe with shale in middle 10 finely banded toward bottom.
Skalie, met enkele **steenkoollagies**	8	4	—		Shale, with a few **coal** bands.
Skalie en **glanskool,** gemeng	1	7	—		Shale and bright **coal,** mixed.
Glanskool, gemeng met skalielae by onder-ent	1	0	147	6	**Coal,** bright, mixed with shal bands at bottom.
Skalie, met **steenkoollae**....	4	7	—		Shale, with **coal** bands.
Glanskool, met skaliedele ..		9	152	10	**Coal,** bright, with shale por tions.
Skalie....................	1	4	—		Shale.
Steenkool, baie skalieagtig..	1	7	—		**Coal,** very shaly.
Skalie met **steenkoolbande**..	1	6	—		Shale, with **coal** bands.
Skalie, koolstofhoudend, en gemengde **glanskool** en skalie	25	1	—		Shale, carbonaceous, an mixed bright **coal** and shale
Skalie, met 4 gemengde **glanskool-** en dowwe **steenkoollae** 2" tot 7" dik	6	3	—		Shale, with 4 mixed bright **coa** bands and dull **coal** band from 2" to 7" thick.
Skalie en **steenkool**........		8	—		Shale and **coal.**
Glanskool, korrelrig, plekplek met skalie gemeng		9	190	0	**Coal,** bright, gritty, and mixe with shale in places.
Skalie....................	1	4	—		Shale.
Glanskool en skalie, met modderklontjies	1	4	192	8	**Coal,** bright, and shale, wit clay pellets.
Skalie....................		3	–		Shale.
Steenkool, met baie modderklontjies		4	—		**Coal,** with many clay pellets.
Skalie, koolstofhoudend, en **steenkool,** gemeng, met baie modderklontjies	14	0	—		Shale, carbonaceous, and **coal** mixed, with many cla pellets.
Glanskool- en skalielagies om die beurt		8	207	11	**Coal,** bright bands, and shal bands, alternating.
Skalie, met baie **steenkoollae** 2" tot 6" dik, en baie modderklontjies	22	4	—		Shale, with many **coal** band from 2" to 6" thick, an many clay pellets.
Steenkool, vuil, en koolstofhoudende skalie	2	4	—		**Coal,** dirty, and carbonaceou shale.
Skalie, met **glanskoollae** en baie modderklontjies	6	1	—		Shale, with bright **coal** band and many clay pellets.
Skalie, koolstofhoudend, en vuil **steenkool**	6	5	—		Shale, carbonaceous, and dirt **coal.**
Glanskool, skalieagtige **steenkool** en vuil **steenkool,** gemeng		6	245	7	**Coal,** bright, shaly **coal** an dirty **coal,** mixed.
Steenkool, skalieagtig......		3	—		**Coal,** shaly.
Glanskool, skalieagtige **steenkool** en vuil **steenkool,** gemeng		5	246	3	**Coal,** bright, shaly **coal** an dirty **coal,** mixed.
Skalie, en skalieagtige **steenkool**	2	1	—		Shale and shaly **coal.**

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie, koolstofhoudend, met 'n paar **steenkoolbande.** Naby onder-ent breek kern met 'n hoek van 60° met die vertikaal	10	10	—		Shale, carbonaceous, with a few **coal** bands. Near bottom core breaks with an angle of L 60° with the vertical.
Piriet		3	—		Pyrites.
Steenkool, skalieagtig		7	—		**Coal,** shaly.
Steenkool, dof, skalieagtig	1	6	261	6	**Coal,** dull, shaly.
Skalie, koolstofhoudend		8	—		Shale, carbonaceous.
Steenkool, dof en skalieagtig om die beurt met **steenkoolagtige** skalie, afwisselend met 'n paar **glanskoollagies ;** plek-plek baie piriet	2	7	264	9	**Coal,** dull, shaly, and **coaly** shale, alternating, with a few bright **coal** bands ; very pyritic in places.
Steenkool, gemeng, skalieagtig en piriethoudend hier en daar, om die beurt met **steenkoolagtige** skalie ; 2" **glanskool** by onder-ent	3	5	268	2	**Coal,** mixed, shaly and pyritic in places, alternating with **coaly** shale ; 2" bright **coal** at bottom.
Steenkool, dof, en koolstofhoudende skalie, gemeng, piriethoudend by onder-ent	1	7	269	9	**Coal,** dull, and carbonaceous shale, mixed, pyritic at bottom.
Steenkool, skalieagtig, plek-plek fyngelaag	1	10	271	7	**Coal,** dull, shaly, finely banded in parts.
Skalie		3	—		Shale.
Glanskool		2	—		**Coal,** bright.
Skalie, grys en swart	2	3	274	3	Shale, grey and black.
Sandsteen, skalieagtig, swart		6	—		Sandstone, shaly, black.
Skalie, swart en grys, onderste paar duim sanderig	4	2	—		Shale, black and grey, lower few inches sandy.
Sandsteen, grys en wit, fynkorrelrig	3	0	—		Sandstone, grey and white, fine-grained.
Sandsteen, gryswit, grofkorrelrig	4	5	—		Sandstone, greyish white, coarse-grained.
Steenkool, skalieagtig, koolstofhoudende skalie en **glanskool** met baie piriet en kalsiet hier en daar	2	3	288	7	**Coal,** shaly, carbonaceous shale and pyritic bright **coal,** calcitic in places.
L.W.—Kernkiste gebreek en dele van kern is moontlik deurmekaar.)					(NOTE.—Boxes broken and sections of core may be mixed.)
Skalie, koolstofhoudend	1	1	—		Shale, carbonaceous.
Skalie, grys, met baie kwartskorrels en 3" dowwe **steenkool** naby onder-ent	3	6	—		Shale, grey, with many quartz grains and 3" dull **coal** near bottom.
Skalie en **steenkool**	1	9	—		Shale and **coal.**
Skalie, koolstofhoudend	1	1	—		Shale, carbonaceous.
Skalie, sanderig	2	6	—		Shale, sandy.
Sandsteen, grys en swart, middelkorrelrig, met 'n paar grys skalielae	1	9	—		Sandstone, grey and black, medium-grained, with a few grey shale bands.
Skalie, grys en swart	6	7	—		Shale, grey and black.
Skalie, grys en swart, met 'n paar **steenkoollagies** en 3" **steenkoolagtige** skalie in middel	5	2	—		Shale, grey and black, with a few **coal** bands and 3" **coaly** shale in middle.
Skalie, koolstofhoudend, en skalieagtige **steenkool**	16	11	328	11	Shale, carbonaceous, and shaly **coal.**
Skalie, ligbruin	4	9	—		Shale, light brown.
Sandsteen, skalieagtig, ligbruin	5	9	—		Sandstone, shaly, light brown.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Sandsteen, grys tot grysbruin, hier en daar effens mikadraend, fynkorrelrig	22	4	361	9	Sandstone, grey to greyish brown, slightly micaceous here and there, fine-grained.
Sandsteen, grys tot dofwit, middel- tot grofkorrelrig, veldspaties	4	1	—		Sandstone, grey to greyish white, medium- to coarse-grained, feldspathic.
Sandsteen, gelaag, mikadraend	9	2	—		Sandstone, laminated, micaceous.
Sandsteen, grofkorrelrig....	43	9	—		Sandstone, coarse-grained.
Skalie, sanderig, met **steenkoollagies**		5	—		Shale, sandy, with **coal** bands.
Sandsteen, grofkorrelrig, met **steenkoollagies**	5	0	—		Sandstone, coarse-grained, with **coal** bands.
Steenkool, dof, en glansend, e.g., oorwegend, piriethoudend		9	424	11	**Coal,** dull, and bright, mainly dull **coal,** pyritic.
Sandsteen, skalieagtig......		7	—		Sandstone, shaly.
Steenkool, oorwegend dof..		3	425	9	**Coal,** mainly dull.
Sandsteen................	13	11	—		Sandstone.
Steenkool, skalieagtig, korrelrig		9	—		**Coal,** shaly, gritty.
Sandsteen, grofkorrelrig....		8	—		Sandstone, coarse-grained.
Steenkool, skalieagtig......	1	3	—		**Coal,** shaly.
Skalie, sanderig...........	3	1	—		Shale, sandy.
Skalie, koolstofhoudend....		11	—		Shale, carbonaceous.
Skalie, sanderig...........	3	0	—		Shale, sandy.
Sandsteen, grofkorrelrig....	12	7	—		Sandstone, coarse-grained.
Steenkool, dof, skalieagtig, en skalieagtige **steenkool,** gemeng, 2″ × 2″ lagies moddersteen 11″ en 40″ van bo-af; plek-plek piriethoudend	6	0	467	11	**Coal,** dull, shaly, and shaly **coal,** mixed, 2″ × 2″ bands of mudstone 11″ and 40″ from top; pyritic in portions.
Skalie, **steenkoolagtig,** en skalieagtige dowwe **steenkool**	2	6	—		Shale, **coaly,** and shaly dull **coal.**
Skalie, sanderig...........	8	1	—		Shale, sandy.
Sandsteen, grofkorrelrig....	6	7	—		Sandstone, coarse-grained.
Steenkool, gemeng, en dowwe **steenkool** met 'n glans; plek-plek piriethoudend	2	3	487	4	**Coal,** mixed, and dull **coal** with a lustre; pyritic in parts.
Steenkool, oorwegend dof, met 'n paar oorwegend glansende lae		11	490	3	**Coal,** mainly dull, with a few mainly bright **coal** bands.
(L.W.—Kernkiste gebreek en 'n deel van die kern is moontlik weg of deurmekaar.)					(NOTE.—Boxes broken and core may be lost or mixed.)
Sandsteen................	5	0	495	3	Sandstone.

Bg. 38 (*Verv.*) B.H. 38 (*Contd.*)

o. van onster .-N.-I. F.R.I. mple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.		Nature of Strata.
		Dm. *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
08 H	**Steenkool,** hoofsaaklik glansend, met 'n bietjie skalie hier en daar	9	69	9	**Coal,** mainly bright, with a little shale in places.
	N.G.	3	—		**N.S.**
	Glanskool, plek-plek, fyn-gestreep, 1" **kool**stofhoudende skalie, 3" van onder-af uitgesluit	14	71	2	**Coal,** bright, finely banded in portions, 1" carbonaceous shale, 3" from bottom excluded.
	N.G.	5	—		**N.S.**
G	**Glanskool**	11	72	6	**Coal,** bright.
	N.G.	38	—		**N.S.**
F	**Glanskool,** fyn-gestreep, kalsiethoudend (5" kern word vermis)	15	77	4	**Coal,** bright, finely banded, calcitic (5" core missing).
	N.G.	10	—		**N.S.**
	N.G.	224	—		**N.S.**
E	**Glanskool,** met skaliedele	9	97	7	**Coal,** bright, with shale portion.
	N.G.	67	—		**N.S.**
	Glanskool, met skaliedele, kalsiethoudend en piriethoudend	23	105	1	**Coal,** bright, with shale portions, calcitic and pyritic.
	N.G.	3	—		**N.S.**
D	**Glanskool,** piriethoudend en kalsiethoudend	3			**Coal,** bright, pyritic and calcitic.
	N.G.	5	—		**N.S.**
	Glanskool, met skaliedele	12	107	0	**Coal,** bright, with shale portions.
	N.G.	2½	—		**N.S.**
B	**Glanskool,** kalsiethoudend, met baie skalielae	20½	108	11	**Coal,** bright, calcitic, with many shale bands.
	N.G.	23	—		**N.S.**
A	**Glanskool,** skalie hier en daar	23	112	9	**Coal,** bright, shale in places.
	N.G.	9	—		**N.S.**
09	**Glanskool,** met baie skalielae	9	118	5	**Coal,** bright, with many shale bands.
	N.G.	2½	—		**N.S.**
G	**Glanskool**	6	119	1½	**Coal,** bright.
	N.G.	2	—		**N.S.**
	Glanskool	4½	119	8	**Coal,** bright.
	N.G.	4			**N.S.**
	Glanskool, met 'n paar skalielae aan bo-ent en onder-ent	6	120	6	**Coal,** bright, with a few shale bands at top and bottom.
	N.G.	54	—		**N.S.**
F	**Glanskool,** met baie skalielae	10	125	10	**Coal,** bright, with many shale bands.
	N.G.	8	—		**N.S.**
E	**Steenkool,** hier en daar gemeng met skalie, 1" skalie van onder-ent uitgesluit	13	127	7	**Coal,** mixed, with shale in places, 1" shale at bottom excluded.
	N.G.	38½	—		**N.S.**
D	**Glanskool,** met skaliedele	32½	133	6	**Coal,** bright, with shale portions.
	N.G.	9	—		**N.S.**

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
N 409 C	**Glanskool,** gemeng met sandkorrels in boonste 9″, en gemeng met skalie in middelste 10″, fyngelaag na onder	28	136 7	**Coal,** bright, mixed wi sand grains in top and mixed with sh in middle 10″, fine banded towar bottom.
	N.G...................	100	—	**N.S.**
	N.G...................	19	—	**N.S.**
B	**Glanskool,** gemeng met skalielae by onderent	12	147 0	**Coal,** bright, mixed wi shale bands bottom.
	N.G...................	55	—	**N.S.**
A	**Glanskool,** met skaliedele	9	152 10	**Coal,** bright, with sha portions.
N 410	**N.G.**..................	8	—	**N.S.**
C	**Glanskool,** korrelrig en plek-plek gemeng met skalie	0	100 0	**Coal,** bright, gritty a mixed with shale places.
	N.G...................	16	—	**N.S.**
B	**Glanskool** en skalie, met modderklontjies	16	192 8	**Coal,** bright, and sha with clay pellets.
	N.G...................	3	—	**N.S.**
	N.G...................	4	—	**N.S.**
	N.G...................	168	—	**N.S.**
A	**Glanskool** en skalielagies om die beurt	8	207 11	**Coal,** bright bands a shale bands, alterna nating.
N 434	**Glanskool,** skalieagtige **steenkool** en vuil **steenkool,** gemeng	6	245 7	**Coal,** bright, shaly a dirty **coal,** mixed.
	N.G...................	3	—	**N.S.**
E	**Glanskool,** skalieagtige **steenkool** en vuil **steenkool,** gemeng	5	246 3	**Coal,** bright, shaly **co** and dirty **coal,** mixe
	N.G...................	25	—	**N.S.**
	N.G...................	132	—	**N.S.**
	N.G...................	3	—	**N.S.**
	N.G...................	7	—	**N.S.**
D	**Steenkool,** dof, skalieagtig	18	261 0	**Coal,** dull, shaly.
	N.G...................	8	—	**N.S.**
C	**Steenkool,** dof, skalieagtig, en **steenkoolagtige** skale, afwisselend, met 'n paar **glanskoollagies;** baie piriet in dele	31	264 9	**Coal,** dull, and **coa** shale, alternatin with a few bright **co** bands; very pyrit in places.
B	**Steenkool,** gemeng, skalieagtig en piriethoudend hier en daar, afwisselend met **steenkoolagtige** skalie, 2″ **glanskool** by onder-ent	41	268 2	**Coal,** mixed, shaly a pyritic in places, a ternating with **coa** shale; 2″ bright **co** at bottom.
	N.G...................	19	—	**N.S.**
A	**Steenkool,** dof, skalieagtig, plek-plek fyngestreep	22	271 7	**Coal,** dull, shaly, finel banded in places.
	N.G...................	3	—	**N.S.**
	Glanskool..............	2	272 0	**Coal,** bright.

o. van onster -N.-I. .R.I. ple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
35	**N.G.**	60	—	**N.S.**
B	**Steenkool,** dof, en glansend, e.g., oorwegend, piriethoudend	9	424 11	**Coal,** dull, and bright, mainly dull, pyritic.
	N.G.	7	—	**N.S.**
A	**Steenkool,** dof, oorwegend	3	425 9	**Coal,** mainly dull.
36	**N.G.**	151	—	**N.S.**
C	**Steenkool,** dof, skalieagtig en skalieagtige **steenkool,** gemeng, 2″ × 2″ lagies moddersteen 11″ en 40″ van bo-af; piriethoudend hier en daar	72	467 11	**Coal,** dull, shaly, and shaly **coal,** mixed, 2″ × 2″ bands of mudstone 11″ and 40″ from top; pyritic in parts.
	N.G.	30	—	**N.S.**
	N.G.	97	—	**N.S.**
B	**Steenkool,** gemeng, en dowwe **steenkool** met 'n glans; piriethoudend hier en daar	27	487 4	**Coal,** mixed, and dull **coal** with a lustre; pyritic in parts.
	N.G.	24	—	**N.S.**
A	**Steenkool,** oorwegend dof, met 'n paar glansende **steenkoollae** (L.W.—Kernkiste gebreek en 'n deel van die kern moontlik weg of deurmekaar.)	11	490 3	**Coal,** mainly dull, with a few bright **coal** bands. (NOTE.—Boxes broken and some of the core may be lost or mixed.)

BOORGAT 38 : CANADA 990 : BOREHOLE 38.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.		Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
N 408	H	22	10·8	2·9	19·3	35·0	42·8	57·9	6·6	78·6	10·5	2½	2
	G	11	11·2	3·0	17·7	34·7	44·6	61·3	6·8	81·8	10·6	3½	2½
	F	15	11·7	3·2	14·7	36·1	46·0	75·0	6·9	86·4	9·3	2½	2½
	E	9	10·9	3·1	18·8	33·8	44·3	62·1	5·1	76·7	9·0	2½	2
	D	26	10·6	2·8	23·0	31·6	42·6	49·3	6·9	72·1	11·7	2	2
	C	12	10·4	2·6	24·7	33·2	46·5	48·5	6·9	68·2	11·9	4	3
	B	20½	11·5	3·0	16·7	35·1	45·2	68·4	6·1	81·6	9·2	3	2½
	A	23	11·7	2·9	16·5	35·5	45·1	71·7	8·4	86·2	11·6	4½	2
N 409	G	25½	11·0	2·6	20·4	33·6	43·3	60·8	7·0	79·2	11·2	3½	3
	F	10	10·3	2·6	24·3	32·3	40·8	52·6	8·0	70·0	12·5	2½	2
	E	12	10·6	2·5	23·0	32·6	41·9	49·4	8·2	76·1	13·7	3½	2
	D	32½	11·6	3·0	16·0	34·0	47·0	66·9	7·6	89·9	12·2	3½	3
	C	28	10·2	2·7	25·9	33·5	37·9	40·6	7·7	67·3	12·6	3	3
	B	12	10·1	2·6	24·7	31·5	41·1	43·4	7·7	71·8	14·0	3	2
	A	9	9·6	2·6	28·6	30·3	37·6	39·6	6·7	58·7	11·3	2½	2
N 410	C	9	10·5	2·8	20·0	37·6	39·0	64·6	4·8	72·9	7·3	3½	2½
	B	16	10·8	2·8	20·7	34·1	42·4	57·4	5·2	73·2	9·5	4	3½
	A	8	11·2	3·0	17·5	34·3	45·2	65·0	5·3	76·6	7·2	2½	2
N 434	E	11	—	2·5	29·2	33·1	35·2	40·6	6·3	57·6	10·2	1	1 F
	D	18	—	2·6	33·8	21·8	41·8	4·9	7·8	34·6	15·7	1 F	1 F
	C	31	—	2·4	33·9	22·4	41·3	11·9	7·3	40·4	15·0	1 F	1 F
	B	41	—	2·5	32·2	26·2	39·1	19·4	6·6	46·5	11·7	1	1½
	A	24	—	2·7	30·7	22·5	44·1	10·8	8·5	45·0	17·1	1 F	1 F
N 435	B	9	—	2·7	24·0	25·2	48·1	29·9	5·0	59·8	9·2	1 P	—
	A	3	11·9	3·1	14·5	23·4	59·0	32·6	6·1	87·4	10·7	1 P	—
N 436	C	72	10·0	[illegible]	26·1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

BOORGAT 39 : HOOIKRAAL 721 : BOREHOLE 39.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Sand	48	0	—		Sand.
Sand en gruis	27	0	75	0	Sand and gravel.
Moddersteen	71	0	—		Mudstone.
Moddersteen, grys	1	6	147	6	Mudstone, grey.
Skalie, grys met **steenkoollae**	7	10	155	4	Shale, grey with **coal** bands.
Glanskoollagies en koolstofhoudende skalielagies om die beurt		2½	—		**Coal,** bright thin bands, and thin carbonaceous shale bands, alternating.
Glanskool- lagies en koolstofhoudende skalie lagies om die beurt	1	2	—		**Coal,** bright thin bands and thin bands of carbonaceous shale, alternating.
Glanskool-lagies en koolstofhoudende skalie lagies om die beurt, piriethoudend	3	3	—		**Coal,** bright thin bands and thins bands of carbonaceous shale, alternating, pyritic.
Glanskool en skalie		11	—		**Coal,** bright, and shale.
Glanskool-lagies en koolstofhoudende skalie lagies om die beurt	1	10	—		**Coal,** bright thin bands and thin carbonaceous shale bands, alternating.
Skalie		1½	—		Shale.
Glanskool, gestreep, met 'n paar dun skalielagies; piriethoudend na onder	4	1	—		**Coal,** bright-banded, with a few thin shale bands; pyritic towards bottom.
Steenkool, baie bros; moddersteen		4	167	3	**Coal,** very brittle; mudstone.
Skalie met **steenkoolstrepe**	7	6	174	9	Shale with **coal** stringers.
Glanskool met skalie hier en daar Kern baie erg gebreek.		7	—		**Coal,** bright, with shale in places Core badly broken.
Skalie		6½	—		Shale
Glanskool met skalie hier en daar		5½	—		**Coal,** bright, with shale in places
Glanskool-lae en koolstofhoudende skalielae, beurtelings		8	—		**Coal,** bright bands, and bands of carbonaceous shale, alternating.
Skalie		3½	—		Shale.
Glanskool- en koolstofhoudende skalielae om die beurt		6	—		**Coal,** bright bands, and bands of carbonaceous shale, alternating.
Skalie met 'n bietjie **glanskool**		6	—		Shale with a little bright **coal.**
Glanskool met skalie hier en daar; modderklontjies by bo-ent	1	0½	—		**Coal,** bright, with shale in places; clay pellets at top.
Skalie		3	—		Shale.
Glanskool		4	—		**Coal,** bright.
Skalie, koolstofhoudend, met dun **glanskoollagies**		10	—		Shale, carbonaceous, with thin bands of bright **coal.**
Glanskool met skalie hier en daar		10	—		**Coal,** bright, with shale in places.
Glanskool met baie modder		1	—		**Coal,** bright, with much clay.
Skalie		3	—		Shale.
Glanskool (kern erg gebreek)	1	5	—		**Coal,** bright (core badly broken).
Glanskool met skalie hier en daar	1	0	—		**Coal,** bright, with shale in places.
Skalie, koolstofhoudend		9	—		Shale, carbonaceous.
Glanskool, met baie skaliedele en modderklontjies		4	—		**Coal,** bright, with many shale portions and clay pellets.
Skalie, koolstofhoudend, met 'n bietjie **steenkool** ; bevat glyvlakke		11	187	1	Shale, carbonaceous, with a little **coal** ; contains slickensides.
(9″ Kern vermis, tussen 174′ 9″ en 187′ 1″)					(9″ Core missing, between 174′ 9″ and 187′ 1″.)

Aard van lae.	Dikte verkry. Thickness Recovered. *Vt. Ft.*	*Dm. In.*	Ware diepte. True Depth. *Vt. Ft.*	*Dm. In.*	Nature of Strata.
Skalie, swart en koolstofhoudend, met enkele **steenkoollagies**	8	9	195	10	Shale, black and carbonaceous, with a few thin **coal** bands.
Steenkool, vuil	1	6	197	4	**Coal,** dirty.
Skalie, swart	3	0	—		Shale, black.
Steenkool, skalieagtig, beter na onder	1	5	—		**Coal,** shaly, better towards bottom.
Skalielae, koolstofhoudend, en **glanskoollae** om die beurt	2	2	—		Shale, bands, carbonaceous and bright **coal** bands, alternating.
Glanskool		8	—		**Coal,** bright.
Skalie, koolstofhoudend, en plek-plek **steenkoolagtig**	3	9	—		Shale, carbonaceous, and **coaly** in parts.
Skalielae, koolstofhoudend, en **glanskool,** en skalie om die beurt	2	3	—		Shale bands, carbonaceous, and bright **coal** and shale, alternating.
Glanskool		6	—		**Coal,** bright.
Skalie, koolstofhoudend		4	—		Shale, carbonaceous.
Glanskool, met skaliedele	1	0	—		**Coal,** bright, with shale portions.
Skalie, koolstofhoudend, met 'n bietjie **steenkool**	1	4	—		Shale, carbonaceous, with a little **coal.**
Glanskool, met skaliedele	3	3	217	0	**Coal,** bright, with shale portions.
Skalie met **steenkoolstrepies.**	1	11	218	11	Shale, with **coal** stringers.
Skalie en **glanskoollagies** om die beurt; skalie sterk oorwegend	4	3	—		Shale bands and bright **coal** bands, alternating, all very thin; shale strongly predominating.
Glanskool, vuil		6	—		**Coal,** bright; dirty.
Skalie, koolstofhoudend, met 3 **steenkoollae**	2	10	226	6	Shale, carbonaceous, with 3 **coal** bands.
Steenkool, skalieagtig		4	—		**Coal,** shaly.
Skalie, koolstofhoudend		7	—		Shale, carbonaceous.
Steenkool, skalieagtig	1	0	—		**Coal,** carbonaceous.
Skalie, koolstofhoudend		5	—		Shale, carbonaceous.
Glanskool		8	—		**Coal,** bright.
Skalie, koolstofhoudend	1	6	231	0	Shale, carbonaceous.
Skalie, swart, met heelwat **steenkoollagies** van ± 3″; onderste 1½″ bevat baie piriet	9	4	240	4	Shale, black, with many **coal** streaks of ± 3″; bottom 1½ contains much pyrites.
Skalie, swart	2	2	—		Shale, black.
Steenkool, dof en glansend, glansend oorwegend		9	—		**Coal,** bright, and dull **coal,** mainly bright **coal.**
Skalie, swart	1	10	—		Shale, black.
Skalie, swart, met **steenkoolstrepies**	3	5	248	6	Shale, black, with **coal** stringers.
Skalie, koolstofhoudend	1	3	—		Shale, carbonaceous.
Glanskool, met skaliedele, 1½″ piriethoudende moddersteen 7½″ van onder-af	1	6	251	3	**Coal,** bright, with shale portions, 1½″ pyritic mudstone 7½″ from bottom.
Skalie, swart, met **steenkoolstrepies**	3	0	254	3	Shale black, with **coal** stringers.
Skalie, koolstofhoudend		1½	—		Shale, carbonaceous.
Glanskool, gestreep	1	4	—		**Coal,** bright, banded.
Skalie, koolstofhoudend		3	—		Shale, carbonaceous.
Glanskool		3½	—		**Coal,** bright.
Skalie, koolstofhoudend		3	—		Shale, carbonaceous.
Steenkool, hoofsaaklik glanskool		6	—		**Coal,** mainly bright.
Glanskool		2	—		**Coal,** bright.
Skalie, koolstofhoudend		7	—		Shale, carbonaceous.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Steenkool, skalieagtig		5½	—		**Coal,** shaly.
Steenkool, skalieagtig, met modderklontjies, piriethoudend by onder-ent	2	1½	—		**Coal,** shaly, with clay pellets, pyritic towards bottom.
Skalie, koolstofhoudend		1	—		Shale, carbonaceous.
Glanskool		2½	—		**Coal,** bright.
Skalie, koolstofhoudend		8	—		Shale, carbonaceous.
Glanskool		3	—		**Coal,** bright.
Skalie, koolstofhoudend		2½	—		Shale, carbonaceous.
Glanskool		2½	—		**Coal,** bright.
Skalie, koolstofhoudend		2	—		Shale, carbonaceous.
Glanskool		3	—		**Coal,** bright.
Skalie, koolstofhoudend		5½	262	10	Shale, carbonaceous.
Skalie, swart, met **steenkoolstrepe**	9	5	—		Shale, black, with **coal** stringers.
Glanskool		6	272	9	**Coal,** bright.
Skalie, swart	1	4	274	1	Shale, black.
Skalie, koolstofhoudend en **glanskoollae** met skaliedele om die beurt	1	10	275	11	Shale, carbonaceous bands, and bright **coal** bands with shale portions, alternating.
Glanskool en skalie	1	2	—		**Coal,** bright, and shale.
Skalie met baie min **steenkool**	3	4	280	5	Shale with very little **coal.**
Skalie met 4 **steenkoollagies** van 3″–6″ dik, erg piriethoudend	3	11	—		Shale with 4 **coal** bands of 3″–6″ thickness, very pyritic.
Skalie, met een **steenkoolstreep**	10	9	—		Shale, with one **coal** stringer.
Glanskool met skaliestrepies en baie piriet en modderklontjies	1	7	—		**Coal,** bright, with shale stringers and much pyrites and clay pellets.
Skalie, swart	2	6	—		Shale, black.
Skalie, swart, met 2 **steenkoolstrepies**	5	0	304	2	Shale, black, with 2 **coal** stringers.
Glanskool		3	—		**Coal,** bright.
Skalie		8	—		Shale.
Glanskool		3	—		**Coal,** bright.
Skalie, koolstofhoudend, met 1″ **steenkoollagie** in middel		9	—		Shale, carbonaceous, with 1″ **coal** band in middle.
Glanskool		2	—		**Coal,** bright.
Skalie, koolstofhoudend		2	—		Shale, carbonaceous.
Glanskool		2	—		**Coal,** bright.
Skalie, koolstofhoudend		4	—		Shale, carbonaceous.
Glanskool		6	—		**Coal,** bright.
Skalie, koolstofhoudend		4	—		Shale, carbonaceous.
Glanskool		3	—		**Coal,** bright.
Skalie, koolstof- en piriethoudend		2	—		Shale, carbonaceous and pyritic.
Glanskool		3	308	5	**Coal,** bright.
Skalie, swart, met 3″ × 2″ **steenkoollagies**	6	1	—		Shale, black, with 3″ × 2″ **coal** bands.
Glanskool		5	—		**Coal,** bright.
Skalie, swart, met 3″ × 3″ **steenkoollagies**	7	3	322	2	Shale, black, with 3″ × 3″ **coal** bands.
Skalie met 'n bietjie **steenkool**		11	—		Shale, with a little **coal.**
Skalie en koolstofhoudende skalie met 'n paar **steenkoollae**	22	8	—		Shale and carbonaceous shale with a few **coal** bands.
Steenkool, dof en skaliedele		4	346	1	**Coal,** dull and shaly.
Steenkool, dof		7	—		**Coal,** dull.
Skalie		2½	—		Shale.
Steenkool, dof		11	—		**Coal,** dull.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Steenkool, dof, met 'n paar **glanskoolstrepies** na onder	1	8½	—		**Coal,** dull, with a few bright **coal** stringers towards bottom.
Skalie, koolstofhoudend		9	—		Shale, carbonaceous.
Steenkool, gemeng		6	—		**Coal,** mixed.
Skalie met baie modderkorrels		9	—		Shale, with many clay pellets.
Steenkool, hoofsaaklik dof	1	7	—		**Coal,** mainly dull.
Steenkool, korrelrig		6½	—		**Coal,** gritty.
Skalie en **steenkoolagtige** skalie		10	—		Shale, and **coaly** shale.
Steenkool, gemeng, en dowwe **steenkool**	1	10½	—		**Coal,** mixed, and dull **coal.**
Skalie, **steenkoolagtig**		4	356	8	Shale, **coaly.**
Skalie, swart, met 1 dowwe **steenkoolstreep**	8	6	365	2	Shale, black, with 1 dull **coal** band.
Steenkool, dof, skalieagtig	1	2	366	4	**Coal,** dull, shaly.
Skalie, swart		4	—		Shale, black.
Sandsteenlens		1	—		Sandstone lens.
Skalie, swart		7	367	4	Shale, black.
Steenkool, dof, skalieagtig; onderste 7" glansend, erg kalsiethoudend	1	9	369	1	**Coal,** dull, shaly; bottom 7" bright, very calcitic.
Skalie, swart	39	9	408	10	Shale, black.
Skalie, grysswart, mikadraend, gestreep, swarter en gryser in dele	31	5	—		Shale, grey black, micaceous, banded, blacker and greyer in places.
Skalie, grysswart, mikadraend met **steenkool-** en sandsteenstrepe, en pirietknolle	3	5	—		Shale, greyish black, micaceous, with **coal** stringers, sandstone stringers and pyrites nodules.
Skalie, grys, sanderig, gestreep	4	6	—		Shale, grey, sandy, banded.
Sandsteen, grys, skalieagtig		7	—		Sandstone, grey, shaly.
Skalie, swart		2	448	11	Shale, black.
Steenkool, gemeng		10	—		**Coal,** mixed.
Sandsteen		9	-		Sandstone.
Steenkool, gemeng	1	6	—		**Coal,** mixed.
Skalie, **steenkoolagtig**		8	—		Shale, **coaly.**
Steenkool, dof, met 'n paar **glanskoollae**; 1" skalie en piriet 15" van onderaf	5	0	—		**Coal,** dull, with a few bright **coal** bands; 1" shale and pyrites 15" from bottom.
Steenkool, gemeng		6	—		**Coal,** mixed.
Steenkool, skalieagtig		2	—		**Coal,** shaly.
Glanskoollae oorwegend, en dowwe **steenkoollae** om die beurt	2	7	460	11	**Coal,** mainly bright bands and dull **coal** bands, alternating.
Skalie, sanderig	2	4	—		Shale, sandy.
Sandsteen, skalieagtig, gryswit	15	8	—		Sandstone, shaly, greyish white.
Skalie, sanderig, grys	9	6	—		Shale, sandy, grey.
Sandsteen, met skalielense	5	2	—		Sandstone, with shale lenses.
Skalie, grys, met sandsteenlense	4	4	—		Shale, grey, with sandstone lenses.
Sandsteen met skalielense	6	2	—		Sandstone with shale lenses.
Skalie, grys, met sandsteenlense	3	10	507	11	Shale, grey, with sandstone lenses.
Steenkool, dof, met baie skalie	3	0	—		**Coal,** dull, with much shale.
Skalie, grys, gestreep, sanderig	2	2	—		Shale, grey, banded, sandy.
Sandsteen, skalieagtig, grys.	1	0	—		Sandstone, shaly, grey.

Bg. 39 (*Verv.*) B.H. 39 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
	Vt. Dm. *Ft. In.*	*Vt. Dm.* *Ft. In.*	
alie, koolstofhoudend....	2	—	Shale, carbonaceous.
alie, sanderig, grys, en skalieagtige sandsteen	5 0	519 3	Shale, sandy, grey, and shaly sandstone.
ndsteen, grofkorrelrig, wit, kruisgelaagd	3 10	—	Sandstone, coarse-grained, white, cross-bedded.
alie, grys, sanderig, met sandsteenlagies	1 6	—	Shale, grey, sandy, with sandstone bands.
ndsteen, wit, middelkorrelrig, met grys strepe	3 0	—	Sandstone, white, medium-grained, with grey streaks.
ndsteen, grys...........	1 5	529 3	Sandstone, grey.
alie, grys, sanderig, met dun wit sandsteenlagies	16 0	—	Shale, grey, sandy, with thin white sandstone bands.
alie, swart, met dun sandsteenlagies en sanderige dele	18 9	564 0	Shale, black, with thin sandstone bands and sandy portions.

Bg. 39 (*Verv.*) B.H. 39 (*Contd.*)

o. van monster .-N.-I. F.R.I. mple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
471	Skalie, grys met **steenkoollae**	94	155 4	Shale, grey, with **coal** bands.
	Glanskool- en koolstofhoudende skalielagies beurtelings	2½	—	**Coal,** bright thin bands, and thin carbonaceous shale bands, alternating.
E	**Glanskool-** en koolstofhoudende skalielagies om die beurt	14	—	**Coal,** bright thin bands, and thin bands of carbonaceous shale, alternating.
	Glanskool- en koolstofhoudende skalielagies om die beurt; piriethoudend	39	—	**Coal,** bright thin bands and thin bands of carbonaceous shale, alternating, pyritic.
	Glanskool en skalie...	11	—	**Coal,** bright, and shale.
D	**Glanskool-** en koolstofhoudende skalielagies om die beurt	22	—	**Coal,** bright thin bands and thin carbonaceous shale bands, alternating.
	N.G..................	1½	—	**N.S.**
C	**Glanskool,** gestreep, met 'n paar duim skalielagies, piriethoudend na onder	49	—	**Coal,** bright banded, with a few thin shale bands, pyritic towards bottom.
	N.G..................	4	167 3	**N.S.**
	N.G..................	90	174 9	**N.S.**

Bg. 39 (*Verv.*) B.H. 39 (*Contd.*)

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
	Glanskool met skalie hier en daar (Kern baie erg gebreek.)	7	—	**Coal,** bright, with shale in places (Core badly broke
	N.G..........	6½	—	**N.S.**
	Glanskool met skalie hier en daar	5½		**Coal,** bright, with shale in places
B	**Glanskool-** en koolstofhoudende skalielae om die beurt	8	—	**Coal,** bright, bands a carbonaceous sha bands, alternating.
	N.G	3½	—	**N.S.**
	Glanskool- en koolstofhoudende skalielae om die beurt	6	—	**Coal,** bright, bands, a carbonaceous sha bands, alternating.
	Skalie met 'n bietjie **glanskool ; N.G.**	6	—	Shale, with a litt bright **coal, N.S.**
A	**Glanskool** met skalie hier en daar ; modderklontjies by bo-ent	12½	—	**Coal,** bright, with sha in places ; clay pelle towards top.
	N.G..................	3	—	**N.S.**
	Glanskool...........	4	—	**Coal,** bright.
	N.G..................	10	—	**N.S.**
N 472 F	**Glanskool,** met skalie hier en daar	10	—	**Coal,** bright, with sha in places.
	Glanskool, met baie modder ; **N.G.**	1	—	**Coal,** bright, with muc clay ; **N.S.**
	N.G..................	3	—	**N.S.**
E	**Glanskool** (kern erg gebreek)	17	—	**Coal,** bright (core badl broken).
D	**Glanskool,** met skalie hier en daar	12	—	**Coal,** bright, with shal in places.
	N.G..................	9	—	**N.S.**
	N.G..................	4	—	**N.S.**
	N.G..................	11	187 1	**N.S.**
	(9″ kern vermis tussen 174′ 9″ en 187′ 1″)			(9″ of core missing be tween 174′ 9″ an 187′ 1″.)
	N.G..................	105	—	**N.S.**
	N.G..................	10	197 4	**N.S.**
	N.G..................	36	—	**N.S.**
	N.G..................	17	—	**N.S.**
	N.G..................	26	—	**N.S.**
C	**Glanskool**...........	8	—	**Coal,** bright.
	N.G..................	45	—	**N.S.**
	N.G..................	27	—	**N.S.**
	Glanskool...........	6	—	**Coal,** bright.
B	**N.G.**.................	4	—	**N.S.**
	Glanskool met skaliedele	12	—	**Coal,** bright, with shal portions.
	N.G..................	16	—	**N.S.**
A	**Glanskool** met skaliedele	39	217 0	**Coal,** bright, with shal portions.
N 473	**N.G.**.................	34	226 6	**N.S.**
	Steenkool, skalieagtig.	4	—	**Coal,** shaly.
	N.G..................	7	—	**N.S.**
E	**Steenkool,** skalieagtig.	12	—	**Coal,** shaly.
	N.G..................	5	—	**N.S.**
	Glanskool...........	8	—	**Coal,** bright.

No. van nonster B.-N.-I. F.R.I. mple No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
	N.G.	18	231 0	**N.S.**
	N.G.	112	—	**N.S.**
	N.G.	26	—	**N.S.**
	N.G.	9	—	**N.S.**
	N.G.	22	—	**N.S.**
	N.G.	41	248 6	**N.S.**
	N.G.	15	—	**N.S.**
D	**Glanskool** met skaliedele; 1½″ piriethoudende moddersteen 7½″ van onderaf uitgesluit	18	251 3	**Coal,** bright, with shale portions; 1½″ pyritic mudstone 7½″ from bottom excluded.
	N.G.	36	—	**N.S.**
	N.G.	1½	—	**N.S.**
	Glanskool, gestreep...	16	—	**Coal,** bright banded.
	N.G.	3	—	**N.S.**
C	**Glanskool**	3½	—	**Coal,** bright.
	N.G.	3	—	**N.S.**
	Steenkool hoofsaaklik glanskool	6	—	**Coal,** mainly bright.
	N.G.	2	—	**N.S.**
	N.G.	7	—	**N.S.**
	N.G.	5½	—	**N.S.**
B	**Steenkool,** skalieagtig, met modderklontjies; piriethoudend by onder-ent	25½	—	**Coal,** shaly, with clay pellets; pyritic towards bottom.
	N.G.	1	—	**N.S.**
	Glanskool	2½	—	**Coal,** bright.
A	**N.G.**	8	—	**N.S.**
	Glanskool	3	—	**Coal,** bright.
	N.G.	2½	—	**N.S.**
	Glanskool	2½	—	**Coal,** bright.
	N.G.	2	—	**N.S.**
	Glanskool	3	—	**Coal,** bright.
	N.G.	5½	262 10	**N.S.**
9	**N.G.**	22	275 11	**N.S.**
B	**Glanskool** en skalie...	14	—	**Coal,** bright, and shale.
	N.G.	40	280 5	**N.S.**
	N.G.	47	—	**N.S.**
	N.G.	129	—	**N.S.**
	N.G.	19	—	**N.S.**
	N.G.	30	—	**N.S.**
	N.G.	60	304 2	**N.S.**
	Glanskool	3	—	**Coal,** bright.
	N.G.	8	—	**N.S.**
	Glanskool	3	—	**Coal,** bright.
	Skalie, koolstofhoudend **N.G**; 1″ **steenkoolband** in middel gemonster	9	—	Shale, carbonaceous, **N.S.**; 1″ **coal** band in middle sampled.
A	**Glanskool**	2	—	**Coal,** bright.
	N.G.	2	—	**N.S.**
	Glanskool	2	—	**Coal,** bright.
	N.G.	4	—	**N.S.**
	Glanskool	6	—	**Coal,** bright.
	N.G.	4	—	**N.S.**
	Glanskool	3	—	**Coal,** bright.
	N.G.	2	—	**N.S.**
	Glanskool	3	308 5	**Coal,** bright.

Bg. 39 (*Verv.*) B.H. 39 (*Contd.*)

No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
0·10	**N.G.**	4	346 1	**N.S.**
D	**Steenkool,** dof........	7	—	**Coal,** dull.
	N.G.	2½	—	**N.S.**
	Steenkool, dof........	11	—	**Coal,** dull.
C	**Steenkool,** dof, met 'n paar **glanskoolstrepies** na onder	20½	—	**Coal,** dull, with a f bright **coal** string towards bottom.
	N.G.	9	—	**N.S.**
	Steenkool, gemeng....	6	—	**Coal,** mixed.
B	**N.G.**	9	—	**N.S.**
	Steenkool, hoofsaaklik dof	19	—	**Coal,** mianly dull.
	N.G.	6½	—	**N.S.**
	N.G.	10	—	**N.S.**
A	**Steenkool,** gemeng en dof	22½	—	**Coal,** mixed, and d **coal.**
	N.G.	4	356 8	**N.S.**
0·11	**N.G.**	2	448 11	**N.S.**
D	**Steenkool,** gemeng....	10	—	**Coal,** mixed.
	N.G.	9	—	**N.S.**
C	**Steenkool,** gemeng....	18	—	**Coal,** mixed.
	N.G.	8	—	**N.S.**
B	**Steenkool,** dof, met 'n paar **glanskoollae** ; 1" skalie en piriet 15" van onderaf uitgesluit	60	—	**Coal,** dull, with a f bright **coal** bands ; shale and pyrites 1 from bottom e cluded.
A	**Steenkool,** gemeng....	6	—	**Coal,** mixed.
	N.G.	2	—	**N.S.**
	Glanskoollae oorwegend, en dowwe **steenkoollae** beurtelings	31	460 11	**Coal,** mainly brig bands, and dull **c** bands, alternating.

KORTANALISES—PROXIMATE ANALYSES.

Nommer. van monster B.-N.-I. F.R.I. Sample Number.	Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persentasie H_2O. Percentage H_2O.	Persentasie as. Percentage Ash.	Persentasie vlugbestand. Percentage Vol. Matter.	Persentasie kookskoolstof. Percentage Fixed Carbon.	Persentasie dryfsel 1·45. Percentage Fl. 1·45.	Persentasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persentasie dryfsel 1·6. Percentage Fl. 1·6.	Persentasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No. Fl. 1·6.
N 471 E	66½	—	2·3	29·8	27·8	40·1	22·2	6·7	58·9	13·7	2½	2½
D	22	11·1	2·7	21·0	30·5	45·8	56·8	6·6	83·9	14·7	3	2
C	49	11·9	3·0	16·7	32·8	47·5	69·8	7·1	93·3	13·9	4	3½
B	26½	10·5	2·6	25·0	29·5	42·9	30·5	7·9	73·8	15·3	3	2
A	16½	11·3	2·9	19·4	32·2	45·5	48·0	8·6	87·5	15·3	3½	3
N 472 F	10	11·5	2·3	17·9	34·4	45·4	64·0	7·9	84·9	12·3	3½	3
E	17	12·0	2·4	15·4	35·5	46·7	68·2	8·0	87·7	11·5	4	3½
D	12	10·8	2·3	22·9	32·2	42·6	46·7	8·6	76·8	14·7	4	3
C	8	11·0	2·4	21·9	31·3	44·4	50·0	6·3	73·9	10·7	3½	2½
B	18	10·6	2·2	23·8	30·5	43·5	48·4	7·0	66·7	11·5	3½	3
A	39	—	2·4	27·2	28·3	42·1	28·1	5·9	61·4	11·2	2	1½
N 473 E	24	—	2·1	25·2	30·8	61·9	42·4	6·5	68·6	12·5	4	3
D	16½	10·7	1·9	24·3	31·0	42·8	45·7	6·2	64·3	12·5	5	4
C	25½	11·2	2·0	21·0	33·1	43·9	51·8	6·8	78·9	14·0	5	4
B	25½	—	1·8	28·1	33·3	36·8	40·5	6·8	58·8	11·1	3½	3
A	11	11·0	2·1	20·8	33·6	43·5	61·0	6·0	71·2	9·1	3½	3
09 B	14	—	2·2	24·6	27·7	45·5	51·2	7·7	67·2	11·7	2½	2
A	23	11·6	2·5	19·0	33·7	44·8	65·7	6·7	75·0	8·9	3½	3
0·10 D	18	—	2·3	36·8	18·9	42·0	1·3	—	20·9	16·9	—	1 F
C	20½	—	2·3	25·5	22·9	49·3	12·1	8·2	56·1	14·9	1	1
B	25	—	2·1	28·2	31·8	37·9	21·7	6·6	55·1	11·2	1½	1
A	22½	—	2·1	26·7	28·7	42·5	31·7	6·7	46·1	11·3	1 F	1 F
0·11 D	10	11·4	2·3	19·2	25·8	52·7	64·0	4·8	75·7	6·4	1 F	—
C	18	12·5	2·6	11·7	28·7	57·0	72·1	5·0	89·5	7·1	1½	1
B	59	11·1	2·5	20·7	23·3	53·5	32·1	6·3	73·3	12·2	1	1 F
A	37	11·0	2·4	21·2	25·3	51·1	33·5	6·5	67·4	11·1	1	1

BOORGAT 40 : GARIBALDI 955 : BOREHOLE 40.

Kern 3½ dm. Core 3½ in.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Grond	3	0	3	0	Soil.
Moddersteen	75	6	78	6	Mudstone.
Skalie, koolstofhoudend, en **steenkoollae** beurtelings ; skalie oorwegend	10	3	88	9	Shale bands, carbonaceous, an **coal** bands, alternating mainly shale.
Steenkool, gemeng, gestreep, kalsiethoudend	1	0	89	9	**Coal,** mixed, banded, calciti
Skalie, koolstofhoudend		6	—		Shale, carbonaceous.
Steenkool, plek-plek skalieagtig ; 5″ **steenkool** in middel erg piriethoudend	1	1	—		**Coal,** shaly in parts ; 5″ **co** in middle very pyritic.
Skalie- en **steenkoollae** om die beurt ; skalie oorwegend	6	11	—		Shale bands and **coal** band alternating ; mainly shale.
Glanskool en dowwe **steenkool ;** oorwegend **glanskool ;** baie bros ; pikagtig hier en daar ; piriet- en kalsiethoudend	1	2	—		**Coal,** bright and dull, mainl bright, very friable, pitch like in parts ; pyritic an calcitic.
Glanskool en skalie, gemeng	2	8	—		**Coal,** bright, and shale, mixed
Skalielae en skalieagtige **steenkoollae** om die beurt	2	3	—		Shale bands and shaly **coa** bands, alternating.
Skalie, koolstofhoudend		5	—		Shale, carbonaceous.
Glanskool en dowwe **steenkool ; glanskool** oorwegend ; pikagtig ; hier en daar bros piriethoudend ; enkele dun skalielagies	1	6	—		**Coal,** bright and dull, mainl bright **coal,** pitchlike, friabl and pyritic in parts ; occa sional thin shale bands.
Skalie, koolstofhoudend		7	—		Shale, carbonaceous.
Glanskool		5	—		**Coal,** bright.
Steenkool en piriet		3	—		**Coal** and pyrites.
Skalie, koolstofhoudend	1	0	—		Shale, carbonaceous.
Steenkool, gemeng en gestreep, plek-plek skalieagtig	1	5	109	11	**Coal,** mixed and banded, shal in parts.
Skalie, koolstofhoudend		11	—		Shale, carbonaceous.
Skalie, koolstofhoudend, en **steenkool**	1	11	112	9	Shale, carbonaceous, and **coal**
Glanskool en dowwe **steenkool, glanskool** oorwegend, skalieagtig by bo-ent	1	3	—		**Coal,** bright and dull, mainl bright **coal,** shaly at top.
Glanskool, gestreep, met skalie hier en daar	1	1	—		**Coal,** bright banded, with shal in parts.
Skalie, koolstofhoudend		3	—		Shale, carbonaceous.
Glanskool, gestreep		3	—		**Coal,** bright banded.
Skalie met 'n bietjie **steenkool** by onderent	1	8	—		Shale, with a little **coal** a bottom.
Skalie, koolstofhoudend		9	—		Shale, carbonaceous.
Glanskool, pikagtig in boonste 13″. Onderste helfte is gemeng ; plek-plek skalieagtig met baie glyvlakke	2	4	—		**Coal,** bright, pitchlike in top 13″. Lower half mixed shaly in parts with many slip-planes.
Skalie, koolstofhoudend		2	—		Shale, carbonaceous.
Glanskool, pikagtig, fyngestreep hier en daar ; erg piriethoudend	1	6	—		**Coal,** bright, pitchlike, finely banded in parts ; very pyritic.
Skalie, koolstofhoudend		3	—		Shale, carbonaceous.
Glanskool, fyngestreep, plek-plek erg piriethoudend ; baie bros		7	—		**Coal,** bright, finely banded, very pyritic in parts ; very friable.

Bg. 40 (*Verv.*) B.H. 40 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
alie		11	—		Shale.
alie en **glanskool,** gemeng, net baie glyvlakke by bo-ent	1	5	125	2	Shale and bright **coal,** mixed, with many slip-planes at top.
alie, koolstofhoudend	2	0	127	2	Shale, carbonaceous.
nskool, erg piriethoudend	1	0	—		**Coal,** bright, very pyritic.
alie en **steenkool**		4	—		Shale and **coal.**
nskool en skalie, gemeng	1	5	—		**Coal,** bright; and shale, mixed.
nskool		4	—		**Coal,** bright.
alie, koolstofhoudend		3	—		Shale, carbonaceous.
nskool		6	—		**Coal,** bright.
alie, koolstofhoudend		1	—		Shale, carbonaceous.
nskool		1	—		**Coal,** bright.
alie, koolstofhoudend		1	—		Shale, carbonaceous.
nskool met 'n paar skalie-ae		7	—		**Coal,** bright, with a few shale bands.
alie		4	—		Shale.
nskool, met skaliedele		4	—		**Coal,** bright, with shale portions.
alie, koolstofhoudend		8	—		Shale, carbonaceous.
nskool		9	—		**Coal,** bright.
lie, koolstofhoudend		7	—		Shale, carbonaceous.
nskool	1	2	—		**Coal,** bright.
alie, koolstofhoudend		4	—		Shale, carbonaceous.
nskool		4	—		**Coal,** bright.
nskool, kalsiethoudend by onderent	1	0	137	4	**Coal,** bright, calcitic at bottom.
alie, **steenkool** en piriet		2	137	6	Shale, **coal** and pyrites.
alie, met **steenkoollae**	7	6	145	0	Shale, with **coal** bands.
nskool	1	2	—		**Coal,** bright.
alielae, koolstofhoudend, en **glanskoollae;** skalie oorwegend	6	2	—		Shale bands, carbonaceous, and bright **coal** bands; mainly shale.
nskool		2	—		**Coal,** bright.
alie, koolstofhoudend		2	—		Shale, carbonaceous.
nskool		4	—		**Coal,** bright.
alie, koolstofhoudend, en piriethoudende **steenkool.**		5	—		Shale, carbonaceous, and very pyritic **coal.**
nskool, piriethoudend		5	—		**Coal,** bright, pyritic.
alie, koolstofhoudend		2	—		Shale, carbonaceous.
nskool, kalsiethoudend		7	154	8	**Coal,** bright, calcitic.
alie, koolstofhoudend	1	7	156	3	Shale, carbonaceous.
nskool, pikagtig, met baie pirietknolle; kalsiethoudend hier en daar	4	2	—		**Coal,** bright, pitchlike, with many pyrites nodules; calcitic in parts.
alie, met baie modderklontjies	1	6	—		Shale, with many clay pellets.
alie, koolstofhoudend, met 'n bietjie pikagtige **steenkool**		8	—		Shale, carbonaceous, with a little pitchlike **coal.**
nskool en skalie		10	163	5	**Coal,** bright, and shale.
alie, koolstofhoudend, met **steenkoollae**	4	0	167	5	Shale, carbonaceous, with **coal** bands.
eenkool, gemeng, skalie-agtig klein monstertjie, 2" dik, naby onderent van koolstofhoudend skalie	1	7	169	0	**Coal,** mixed, shaly. Small sample, 2" thick, bottom of carbonaceous shale.
alie, koolstofhoudend, met **steenkoollae**	16	4	185	4	Shale, carbonaceous, with **coal** bands.
nskool, skalie hier en daar, kalsiet- en piriethoudend; glyvlakke in middel	2	0	—		**Coal,** bright, shale in places; calcitic and pyritic; slickensides in middle.

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. *Ft.*	*Dm.* *In.*	*Vt.* *Ft.*	*Dm.* *In.*	
Skalie		4	—		Shale.
Glanskool, pikagtig		5	—		**Coal,** bright, pitchlike.
Skalie en **steenkool**	1	7	189	8	Shale and **coal.**
Skalie, koolstofhoudend	3	9	193	5	Shale, carbonaceous.
Skalie en **steenkool**	1	2	—		Shale and **coal.**
Skalie, met baie modderklontjies, en **steenkool**; skalie oorwegend	3	7	198	2	Shale, with many clay pellet and **coal**; mainly shale.
Skalie, koolstofhoudend, met **steenkoollae** in boonste 3′ 0″	11	8	209	10	Shale, carbonaceous, with **co** bands in top 3′ 0″.
Skalielae, koolstofhoudend en **steenkoollae** om die beurt; hoofsaaklik skalie	65	7	275	5	Shale bands, carbonaceous, ar **coal** bands, alternating mainly shale.
Skalie, koolstofhoudend met verspreide kwartskorrels; is effens sanderig op plekke; onderste 2″ bevat modderklontjies	4	0	279	5	Bottom 4′ 0″ contain scatter quartz grains and is slight sandy in places; bottom contain clay pellets.
Skalie, swart, met sandsteenlae	6	11	—		Shale, black, with sandsto bands.
Skalie, swart, sanderig	1	0	—		Shale, black, sandy.
Sandsteen, skalieagtig, swart	2	6	289	10	Sandstone, shaly, black.
Sandsteen, wit, middelkorrelrig, veldspaties	1	9	—		Sandstone, white, mediu grained, felspathic.
Sandsteen, wit grofkorrelrig, veldspaties	1	7	—		Sandstone, white, coars grained, felspathic.
Grintsteen, wit, veldspaties, met verspreide, geronde kwartsietkorrels, en 'n paar fynkorrelrige, grys sandsteenlae	2	6	—		Grit, white, felspathic, wit scattered, rounded quartzi pebbles, and a few fin grained, grey sandsto bands.
Grintsteen en sandsteen, met heelwat verspreide modderklonte	6	8	302	4	Grit and sandstone, with man scattered clay pellets.
Skalie, bruin	2	0	—		Shale, brown.
Skalie, bruin, baie glyvlakke en baie piriet	1	3	—		Shale, brown, many slicke sides and much pyrites.
Skalie, swart, baie glyvlakke; kwartskorrels	12	2	—		Shale, black, many slickensid quartz grains.
Skalie, sag, verweer, met 'n paar **steenkoollae**	4	6	—		Shale, soft, weathered, wit a few **coal** bands.
Sandsteen en grintsteen	2	3	—		Sandstone and grit.
Sandsteen en grintsteen, swart, met modderklontjie hier en daar, plek-plek piriethoudend met baie glyvlakke	2	6	—		Sandstone and grit, black, wit clay pellets here and ther pyritic in places; with man slickensides.
Skalie, swart		9	—		Shale, black.
Sandsteen, grysswart, fynkorrelrig, grysagtig na onder; met baie glyvlakke	3	10	—		Sandstone, greyish, black fin grained, greyish toward bottom, with many slicke sides.
Sandsteen, grys, grofkorrelrig, veldspaties, met modderklontjies hier en daar	2	2	—		Sandstone, grey, coarse-graine felspathic, with clay pellet here and there.
Skalie, swart, met verspreide kwartskorrels	1	6	—		Shale, black, with scatter quartz grains.
Sandsteen, grysswart, met modderklontjies		10	—		Sandstone, greyish black, wit clay pellets.
Skalie, swart, **steenkoolagtig,** met baie glyvlakke	2	8	—		Shale, black **coaly,** with man slickensides.

Bg. 40 (*Verv.*) B.H. 40 (*Contd.*)

Aard van lae.	Dikte verkry. Thickness Recovered.		Ware diepte. True Depth.		Nature of Strata.
	Vt. Ft.	*Dm. In.*	*Vt. Ft.*	*Dm. In.*	
Sandsteen, grysswart, fynkorrelrig	1	10	—		Sandstone, greyish black, fine-grained.
Sandsteen, swart, met baie hoekige kwartskorrels en modderklontjies; grondmassa van geheel is middelkorrelrig	11	2	—		Sandstone, black, with many angular quartz grains and clay pellets; matrix of whole is medium-grained.
Sandsteen, swart tot grysswart, fynkorrelrig	3	9	—		Sandstone, black to greyish black, fine-grained.
Skalie en skalieagtige **steenkool**	7	0	362	6	Shale and **coal.**
Skalie en sandsteen........	1	4	—		Shale and sandstone.
Steenkool, dof, skalierig....		6	—		**Coal,** dull, shaly.
Skalie, swart, en **steenkool**.	1	6	—		Shale, black, and **coal.**
Grintsteen...............		6	—		Grit.
Sandsteen en skalie........	4	6	—		Sandstone and shale.
Sandsteen, wit, middel- tot grofkorrelrig; met baie glyvlakke, veldspaties	6	5	—		Sandstone, white, medium- to coarse-grained; with many slickensides, felspathic.
Steenkool, dof, met baie glyvlakke	1	0	378	3	**Coal,** dull, with many slip-planes.
Sandsteen, fyn- tot middelkorrelrig, wit, veldspaties, met baie verweerde groot veldspate op plekke	52	9	431	0	Sandstone, fine- to medium-grained, white, felspathic, with many weathered, big felspars in places.
Arkose.................	4	0	—		Arkose.
Graniet (Bosveldgraniet)...	11	0	446	0	Granite (Bushveld Granite).

Bg. 40 (*Verv.*) B.H. 40 (*Contd.*)

No. van monster B.-N.-I. F.R.I. Sample No.		Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.		Nature of Strata.
			Dm. In.	*Vt. Ft.*	*Dm. In.*	
56	F	**Steenkool,** gemeng, gestreep, kalsiethoudend	12	89	9	**Coal,** mixed, banded, calcitic.
		N.G.................	6	—		**N.S.**
	E	**Steenkool,** plek-plek skalieagtig; 5″ **steenkool** in middel erg piriethoudend en uitgesluit	13	—		**Coal,** shaly in parts; 5″ **coal** in middle very pyritic en excluded.
		N.G.................	83	—		**N.S.**
	D	**Glanskool** en dowwe **steenkool;** oorwegend **glanskool;** baie bros, pikagtig hier en daar; piriet- en kalsithoudend	14	—		**Coal,** bright, and dull; mainly bright; very friable, pitch-like in parts; pyritic and calcitic.
	C	**Glanskool** en skalie, gemeng	32	—		**Coal,** bright, and shale, mixed.
		N.G.................	27	—		**N.S.**
		N.G.................	5	—		**N.S.**

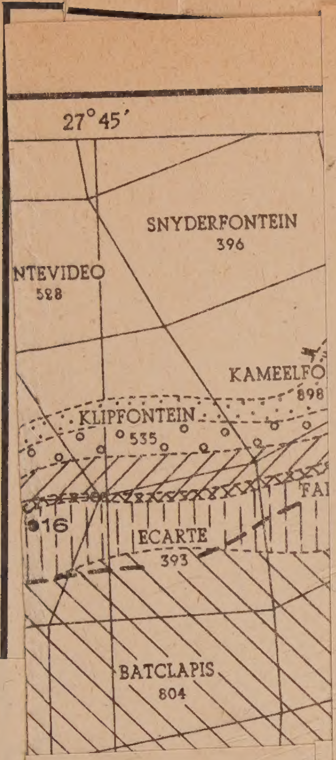
No. van monster B.-N.-I. F.R.I. Sample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. In.	*Vt. Dm. Ft. In.*	
B	**Glanskool** en dowwe **steenkool ;** oorwegend **glanskool,** pikagtig, bros en pirietthoudend hier en daar; enkele dun skalielagies is teenwoordig	18	—	**Coal,** bright and dull, mainly bright **coal,** pitchlike, friable and pyritic in parts ; occasional thin shale bands are present.
	N.G.................	7	—	**N.S.**
	N.G.................	5	—	**N.S.**
	N.G.................	3	—	**N.S.**
	N.G.................	12	—	**N.S.**
A	**Steenkool,** gemeng en gestreep, plek-plek skalieagtig	17	109 11	**Coal,** mixed and banded, shaly in parts.
	N.G.................	11	—	**N.S.**
057	**N.G.**................	23	112 9	**N.S.**
E	**Glanskool** en dowwe **steenkool, glanskool** oorwegend ; skalieagtig by bo-ent	15	—	**Coal,** bright and dull, mainly bright **coal ;** shaly at top.
D	**Glanskool,** gestreep, met skalie hier en daar	13	—	**Coal,** bright, banded, with shale in parts.
	N.G.................	3	—	**N.S.**
	Glanskool, gestreep...	3	—	**Coal,** bright banded.
	N.G.................	20	—	**N.S.**
	N.G.................	9	—	**N.S.**
C	**Glanskool,** pikagtig in boonste 13″. Onderste helfte is gemeng, skalieagtig hier en daar met baie glyvlakke	28	—	**Coal,** bright, pitchlike in top 13″. Bottom half is mixed, shaly in parts with many slip-planes.
	N.G.................	2	—	**N.S.**
B	**Glanskool,** pikagtig, hier en daar fyngestreep ; erg pirietthoudend	18	—	**Coal,** bright, pitchlike, finely banded in parts, very pyritic.
	N.G.................	3	—	**N.S.**
A	**Glanskool,** fyngestreep, plek-plek erg pirietthoudend, baie bros	7	122 10	**Coal,** bright, finely banded, very pyritic in parts, very friable.
	N.G.................	11	—	**N.S.**
O 100	**N.G.**................	24	127 2	**N.S.**
D	**Glanskool,** erg pirietthoudend	12	—	**Coal,** bright, very pyritic.
	N.G.................	4	—	**N.S.**
C	**Glanskool** en skalie, gemeng	17	—	**Coal,** bright, and shale, mixed.
B	**Glanskool**...........	4	—	**Coal,** bright.
	N.G.................	3	—	**N.S.**
	Glanskool...........	6	—	**Coal,** bright.
	N.G.................	1	—	**N.S.**
	Glanskool...........	1	—	**Coal,** bright.
	N.G.................	1	—	**N.S.**
	Glanskool, met 'n paar skalielae	7	—	**Coal,** bright, with a few shale bands.
	N.G.................	4	—	**N.S.**

No. van monster B.-N.-I. F.R.I. ample No.	Aard van lae.	Dikte verkry. Thickness Recovered.	Ware diepte. True Depth.	Nature of Strata.
		Dm. *In.*	*Vt. Dm.* *Ft. In.*	
B	**Glanskool,** met skaliedele	4	—	**Coal,** bright, with shale portions.
	N.G.	8	—	**N.S.**
	Glanskool	9	—	**Coal,** bright.
	N.G.	7	—	**N.S.**
A	**Glanskool**	14	—	**Coal,** bright.
	N.G.	4	—	**N.S.**
	Glanskool	4	—	**Coal,** bright.
	Glanskool, kalsiethoudend by onderent	12	137 4	**Coal,** bright, calcitic at bottom.
	N.G.	2	—	**N.S.**
101	**N.G.**	90	145 0	**N.S.**
B	**Glanskool**	14	—	**Coal,** bright.
	N.G.	75	—	**N.S.**
A	**Glanskool**	2	—	**Coal,** bright.
	N.G.	2	—	**N.S.**
	Glanskool	4	—	**Coal,** bright.
	N.G.	5	—	**N.S.**
	Glanskool, piriethoudend	5	—	**Coal,** bright, pyritic.
	N.G.	2	—	**N.S.**
	Glanskool, kalsiethoudend	7	154 8	**Coal,** bright, calcitic.
102	**N.G.**	19	156 3	**N.S.**
D	**Glanskool,** pikagtig, met baie pirietknolle; kalsiethoudend hier en daar; grootste pirietknolle uitgesluit	50	—	**Coal,** bright, pitch-like with many pyrites nodules, calcitic in parts; largest pyrites nodules excluded.
	N.G.	18	—	**N.S.**
	N.G.	8	—	**N.S.**
C	**Glanskool** en skalie...	10	163 5	**Coal,** bright, and shale.
	N.G.	48	—	**N.S.**
B	**Steenkool,** gemeng, skalieagtig. Klein monstertjie 2″ dik naby onderent van koolstofhoudende skalie	19	169 0	**Coal,** mixed shaly. Small sample, 2″ thick, near bottom of carbonaceous shale.
	N.G.	196	185 4	**N.S.**
A	**Glanskool,** skalie hier en daar, kalsiet en piriethoudend; glyvlakke in middel	24	—	**Coal,** bright, shale in places, calcitic and pyritic; slickensides in middle.
102	**N.G.**	4	—	**N.S.**
	Glanskool, pikagtig...	5	—	**Coal,** bright, pitchlike.
	N.G.	19	189 8	**N.S.**
103	**N.G.**	77	—	**N.S.**
	Steenkool, dof, met baie glyvakke	12	378 3	**Coal,** dull, with many slickensides.

BOORGAT 40 : GARIBALDI 955 : BOREHOLE 40.

KORTANALISES—PROXIMATE ANALYSES.

Nommer van monster B.-N.-I. F.R.I. Sample Number.		Wydte dm. Width ins.	Vw. lbs./lb. Cal. Val. lbs./lb.	Persen-tasie H_2O. Percentage H_2O.	Persen tasie as. Percentage Ash.	Persen-tasie vlug-bestand. Percentage Vol. Matter.	Persen-tasie kooks-koolstof. Percentage Fixed Carbon.	Persen-tasie dryfsel 1·45. Percentage Fl. 1·45.	Persen-tasie as, dryfsel 1·45. Percentage Ash, Fl. 1·45.	Persen-tasie dryfsel 1·6. Percentage Fl. 1·6.	Persen-tasie as, dryfsel 1·6. Percentage Ash, Fl. 1·6.	Sw.-Syf., dryfsel 1·45. Sw. No., Fl. 1·45.	Sw.-Syf., dryfsel 1·6. Sw. No., Fl. 1·6.
0·56	F	12	—	2·6	23·6	32·6	41·2	52·2	9·6	88·1	20·4	4½	3
	E	8	—	2·6	29·0	29·5	38·9	38·9	7·9	54·2	14·3	3½	2½
	D	14	—	2·7	29·0	29·5	38·8	41·1	6·8	61·2	11·9	4	3
	C	32	—	2·0	36·9	27·6	33·5	31·7	7·4	47·0	11·9	3½	3
	B	18	11·4	1·8	19·3	34·2	44·7	60·6	6·4	80·0	11·4	2½	2
	A	17	11·3	2·8	19·9	32·9	44·4	58·7	8·6	80·2	12·1	3½	3
0·57	E	15	—	2·7	29·5	28·3	39·5	35·7	8·1	57·2	14·7	3½	2
	D	16	—	2·6	31·2	28·9	37·3	37·9	7·7	58·6	13·5	2½	1½
	C	28	—	2·7	28·2	29·6	39·5	55·0	6·6	65·0	10·5	4	3½
	B	18	11·9	2·9	15·6	34·5	47·0	73·3	8·1	90·0	11·9	4½	4
	A	7	11·2	2·7	20·8	32·9	43·6	65·6	9·1	79·5	12·2	4	3½
0·100	D	12	—	2·4	28·2	30·2	39·2	44·3	8·2	65·0	13·0	2½	2½
	C	17	—	2·5	32·5	27·8	37·2	36·6	8·7	57·5	15·4	3	1½
	B	31	—	3·0	26·2	29·7	41·1	51·9	7·7	69·3	13·0	1½	1
	A	30	11·3	3·2	18·1	32·0	46·7	65·1	7·5	82·5	11·8	3	3
0·101	B	14	11·0	3·2	19·1	33·0	44·7	64·9	7·9	79·9	11·3	3½	2
	A	18	—	2·7	25·3	30·7	41·3	53·1	7·1	63·0	9·5	2½	2½
0·102	D	50	11·7	3·0	15·0	35·5	46·5	73·5	7·8	88·0	11·0	4	3
	C	10	—	2·5	29·4	30·3	37·8	46·9	8·2	59·3	12·0	4	3½
	B	2	—	2·2	38·1	27·2	32·5	11·5	7·5	27·8	20·7	2½	1
	A	29	—	2·6	27·5	32·3	37·6	48·4	7·4	60·0	11·6	4½	4½
0·103		12	—	2·4	38·0	19·4	40·2	—	—	—	—	—	—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